



勇 做 科 技 先 锋 铸 造 电 源 未 来

AC/DC DC/DC 系列模块电源



RECOMMENDED SPEC

FEATURES AT 50°C
LOADS CAN EXCEED RATED POWER REQUIREMENT
IMPROVED CATCHER AND DC
INPUT VOLTAGE RANGE 2340165300
APPLIC. VOLTAGE

承力电源

CHENGLI POWERSUPPLY



Component Model

www.chengli.com.cn

企业简介

北京承力电源有限公司位于中关村科技园昌平园，占地 12000 平方米，员工约 270 人，是经北京市科委认证的中关村高新技术企业。承力公司凭借出众的技术优势和可靠的质量管理体系，“CL”品牌的模块电源产品已覆盖全国市场，广泛应用于通信、自控、仪器仪表、航空航天、医疗、车载设备、铁路、船舶和电力等领域。

承力公司早在 97 年即开始批量生产军品模块电源，现产品已广泛应用于中国人民解放军海、陆、空及防化、装甲、通讯等各军、兵种的列装装备中。

承力公司始终以质量第一，信誉第一，用户至上为企业理念。以求新、求实、求精的企业精神，经过完善的科学管理和技术进步，成为国内具有一定规模，一定实力，一定水准的开关电源制造企业。

我公司以顾客需求为关注焦点，为顾客提供高标准、高质量、高可靠的电源产品作为我们的目标。以严格的生产流程，科学的质量控制，周到的客户服务为企业发展的宗旨。

公司拥有一支理论基础扎实和实践经验丰富高素质的研发队伍。并具有数条装备精良的生产线（其中一条军品生产线）及经过培训操作熟练的技术工人。力争在复杂的市场环境对客户的要求作出最满意的答复。

承力电源公司早于 1995 年就通过邮电部工业产品质量监督检验中心的 YD/T733 标准的检验，并制定了高于此标准的企业标准。

◆2000 年承力公司率先通过 2000 版的 GB/T9001-2000 质量体系认证。

◇2001 年 11 月通过信息产业部电信设备进网许可证。

◆2004 年 3 月获得 GJB9001A-2001 军工产品质量体系认证证书



Corporate Profile

Located in the Changping Park of the Zhongguancun Science Park, Beijing Chengli Power Supply Co., Ltd. occupies a land area of 12,000m² and employs some 270 workers. It is a high and new technology enterprise certified by the Beijing Municipal Commission on Science and Technology. Building upon its outstanding technological advantages and reliable quality management system, Chengli Company has promoted its CL Brand modular power supply products to the market in the whole state. Its products have now been widely used in the fields of communications, automatic control, instruments and meters, aviation and aerospace, healthcare, in-board equipment, railway, ships and electric power.

As early as in 1997, Chengli Company started the batch production of military power supply modules. Currently, its products are widely used in the equipment of the army, air force, navy, antichemical warfare corps, armored forces and communications forces of the People's Liberation Army.

Chengli Company has long carried forward the corporate philosophy of Quality and Reputation First and Users Foremost. In line with the spirit of innovation, practicality and refinement and through sound scientific management and technological progress, the company has now become a switch power supply manufacturer of a certain size, strength and level in China.

The company takes customer demand as its focus of attention, providing customers with high standard, high quality and high reliability power supply products as its goal, and vigorous production workflows, scientific quality control and comprehensive customer services as its corporate tenet.

The company has a high quality R&D force with solid theoretical knowledge and rich practical experiences, several well-equipped production lines (one of them is a military product line) and skillful workers. The company strives to make the most satisfactory response to customer needs in a complicated market environment.

In 1995, Chengli Company passed the YD/T733 test undertaken by the Industrial Product Quality Supervision and Test center of the Ministry of Post and Telecommunications. It has also formulated an enterprise standard much higher than the YD/T733 Standard.

2000: Chengli Company was the first to pass GB/T9001-2000 certification.

November 2001: Chengli Company obtained Network Access License for Telecom Equipment from the Ministry of Information Industry.

March 2004: Chengli Company obtained the GJB9001A-2001 Certificate of Conformity of Quality System Certification of Military Product Supplier.

公司认证证书

Our certifications



生产及试验设备

Production, test & measurement equipment

三条装备精良生产线 (一条军工产品生产线)

Three well-equipped production lines (one military production line)



DC-DC CS.MZE 系列

【重量】MZE/CS:0.01Kg

输入电压: 12V、24V、48V
输出路数: 单路, 双路
功率: 3-5W
外型尺寸: 31.8*20.3*11.4 (CS) 25.4*25.4*10.2 (MZE)
特性: 体积小, 引出脚功能兼容



P.1-2

DC-DC MZD 系列

【重量】MZD:0.02Kg

输入电压: 12V、24V、48V
输出路数: 单路
功率: 5-10W
外型尺寸: 50.8*25.4*10.2
特性: 体积小, 引出脚功能兼容, 高可靠性设计



P.3-4

DC-DC CD 系列

【重量】CD:0.05Kg

输入电压: 5V、12V、18V、24V、48V、110V
输出路数: 单路, 双路
功率: 5-12W
外型尺寸: 52.8*27.4*11.5
特性: 引出脚功能兼容, 输入可 9-36V (四倍电压输入), 输入 66-160V 可做单路输出



P.3-4

DC-DC CR.CRF 系列

【重量】CR:0.05Kg CRF:0.05Kg

输入电压: 12V、18V、24V、48V
输出路数: 单路, 双路
功率: 5-12W
外型尺寸: 52.8*27.4*11.5
特性: 体积小, 可 9-36V (四倍电压输入)



P.5-6

DC-DC CJ 系列

【重量】CJ:0.05Kg

输入电压: 12V、18V、24V、48V、110V
输出路数: 单路, 双路
功率: 15-20W
外型尺寸: 50.8*40.6*12.5
特性: 体积小, 可 9-36V (四倍电压输入), 引出脚功能兼容



P.7-8

DC-DC CB(CBH) 系列

【重量】CB/CBH:0.08Kg

输入电压: 12V、24V、48V
输出路数: 单路
功率: 15-30W
外型尺寸: 58.2*46*15 (CB) 60*62*17 (CBH)
特性: 引出脚功能兼容, 输出低纹波



P.9-10

DC-DC CRZ 系列

【重量】CRZ:0.09Kg

输入电压: 12V、24V、48V、110V、300V
输出路数: 单路
功率: 30-50W
外型尺寸: 71*37*15
特性: 体积小, 宽电压输入范围



P.11-12

DC-DC CA(CA) 系列

【重量】CA:0.13Kg CAH:0.1Kg

输入电压: 5V、12V、18V、24V、48V
输出路数: 单路, 双路, 三路
功率: 25-40W
外型尺寸: 71*49.5*13.5 (CA) 72*62*15.5 (CAH)
特性: 引出脚功能兼容, 输入可 9-36V (四倍电压输入), 安装方便 (带马蹄孔与不带马蹄孔方式可选择)

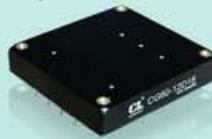


P.13-14

DC-DC CG 系列

【重量】CG:0.12Kg

输入电压: 12V、24V、48V
输出路数: 双路
功率: 30-60W
外型尺寸: 72*69*13.5
特性: 体积小, 双路独立稳压



P.15-16

DC-DC CE(CEH) 系列

【重量】CE:0.15Kg CEH:0.14Kg

输入电压: 12V、18V、24V、48V、110V
输出路数: 单路, 双路, 三路
功率: 50-75W
外型尺寸: 84.3*49.5*16.1 (CE) 86*62*18.1 (CEH)
特性: 引出脚功能兼容, 输入可 9-36V (四倍电压输入), 安装方便 (带马蹄孔与不带马蹄孔方式可选择)



P.17-18

DC-DC CF 系列

【重量】CF:0.13Kg

输入电压: 12V、24V、48V、110V
输出路数: 单路, 双路
功率: 50-125W
外型尺寸: 87.6*61*16.1
特性: 引出脚功能兼容, 宽电压输入范围, 双路独立稳压



P.19-20

DC-DC CKN 系列

【重量】CKN:0.2Kg

输入电压: 12V、18V、24V、48V、72V、110V
输出路数: 单路
功率: 75-200W
外型尺寸: 120*68*16.6
特性: 引出脚功能兼容, 宽电压输入范围可 2 倍、4 倍、10 倍



P.21-22

DC-DC CW 系列

【重量】CW:0.34Kg

输入电压: 24V、48V
输出路数: 单路, 双路
功率: 100-150W
外型尺寸: 127*88.9*17.3
特性: 小体积, 大功率输出



P.23-24

DC-DC CK(K) 系列

【重量】CK:0.3Kg CKK:0.36Kg

输入电压: 12V、24V、48V、300V、600V
输出路数: 单路, 双路
功率: 100-500W
外型尺寸: 139*88*23.5 (CK) 139*88*25.5 (CKK)
特性: 双路独立稳压, 大电流、大功率输出



P.25-26

DC-DC CNZ 系列

【重量】CNZ:0.55Kg

输入电压: 12V、24V、48V
输出路数: 单路
功率: 300-750W
外型尺寸: 159*98*25.6
特性: 高可靠性设计, 大电流、大功率输出



P.27-28

DC-DC CMZ 系列 1/4 砖

【重量】CMZ:0.07Kg

输入电压: 24V、48V
输出路数: 单路
功率: 50-100W
外型尺寸: 57.9*36.8*12.7
特性: 工业标准 1/4, 高可靠性, 高效率



P.29-30

DC-DC CLZ 系列 半砖

【重量】CLZ:0.11Kg

输入电压: 24V、48V、110V
输出路数: 单路
功率: 75-200W
外型尺寸: 61*57.9*12.7
特性: 工业标准 1/2 砖, 高可靠性, 高效率



P.31-32

DC-DC CHZ 系列 整砖

【重量】CHZ:0.2Kg

输入电压: 24V、48V
输出路数: 单路
功率: 150-400W
外型尺寸: 116.8*61*12.7
特性: 工业标准整砖, 高可靠性, 高效率



P.33-34

DC-DC MZB 系列

【重量】MZB:0.1Kg

输入电压: 24V、48V、110V
输出路数: 单路
功率: 50-75W
外型尺寸: 86*41*12.7
特性: 引出脚功能兼容, 高可靠性, 高效率



P.35-36

DC-DC MZA 系列

【重量】MZA:0.25Kg

输入电压: 24V、48V、110V、300V
输出路数: 单路
功率: 75-150W
外型尺寸: 86*72*12.7
特性: 引出脚功能兼容, 高可靠性, 高效率



P.37-38

AC-DC CAA 系列

【重量】CAA:0.14Kg

输入电压: 220Vac
输出路数: 单路
功率: 5-10W
外型尺寸: 55*45*21.5
特性: 可宽电压输入, 范围 (85-265VAC), 引出脚功能兼容



P.39-40

AC-DC CBA 系列

【重量】CBA:0.19Kg

输入电压: 220Vac
输出路数: 单路
功率: 15-25W
外型尺寸: 70*48*23.5
特性: 引出脚功能兼容, 外型设计美观



P.41-42

AC-DC CEW 系列

【重量】CEW:0.33Kg

输入电压: 220Vac
输出路数: 双路
功率: 50-75W
外型尺寸: 127*88.9*25
特性: 外型设计美观, 双路独立稳压



P.43-44

AC-DC CRAA 系列

【重量】CRAA:0.14Kg

输入电压: 220Vac
输出路数: 单路, 双路, 三路
功率: 5-10W
外型尺寸: 62*45*25
特性: 宽电压输入范围, 金属外壳, 高隔离电压



P.45-46

AC-DC CRAB 系列

【重量】CRAB:0.22Kg

输入电压: 220Vac
输出路数: 单路
功率: 10-20W
外型尺寸: 75*53*25
特性: 宽电压输入范围, 金属外壳, 高隔离电压



P.47-48

AC-DC CRAC 系列

【重量】CRAC:0.2Kg

输入电压: 220Vac
输出路数: 双路
功率: 20-30W
外型尺寸: 80*56*25
特性: 宽电压输入范围, 金属外壳, 高隔离电压, 双路独立稳压



P.49-50

AC-DC CCW 系列

【重量】CCW:0.25Kg

输入电压: 220Vac
输出路数: 单路, 双路, 三路
功率: 30-75W
外型尺寸: 116.4*65*21.5
特性: 符合 GB9254, 安装方便 (端子与引针出线方式可选择)



P.51-53

AC-DC COW 系列

【重量】COW:0.21Kg

输入电压: 220Vac
输出路数: 单路
功率: 50-150W
外型尺寸: 130*70*26
特性: 通过 GB9254, EN50121 (端子与引针出线方式可选择)



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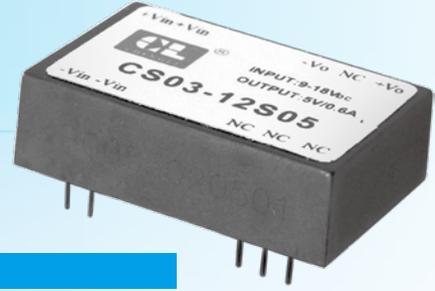
集成一体化模块电源 Compact Power Module With Heat Sink

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DC/DC CS,MZE 系列

体积小巧, 引出脚功能兼容

3-5W



物理特性

结构尺寸: 31.8*20.3*11.4mm(CS)
25.4*25.4*10.2mm(MZE)
重量: MZE/CS:0.01Kg

特性

Features

- | | |
|-----------------|--|
| ■ 引出脚功能兼容 | Pin function compatible |
| ■ 输入与输出完全隔离 | Completely isolated between input & output |
| ■ 自然冷却, 无须附加散热器 | Natural cooling, no heat sink needed |
| ■ 快速动态响应 | Fast dynamic response |
| ■ 体积小, 单路、双路输出 | Small form factor, single output |
| ■ 高可靠性, 长寿命设计 | Design for high reliability, long lifetime |

输入特性

Input Characteristics

| | | |
|--------------------------|---|----------------------|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) | 9-18V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |

输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.1% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

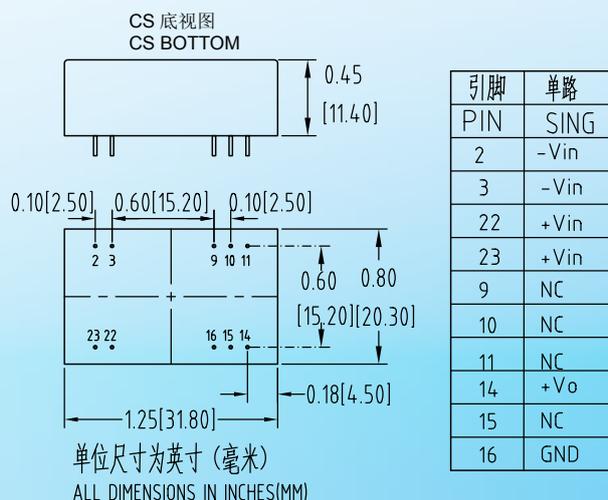
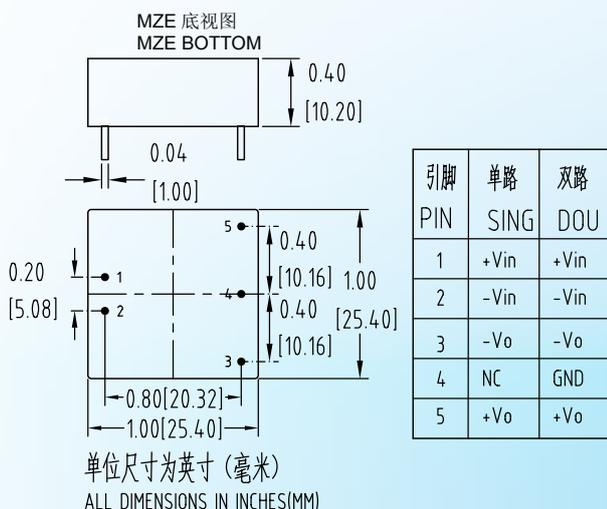
| | |
|----------------------------|-----------------------|
| 输入 - 输出: (Input-Output) | > 500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 500 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |

尺寸图

Dimensioned Drawing



DC/DC CS,MZE 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|---|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 单 | 12 | 9-18 | 05 | 0.6 | 50 | 72% | CS03-12S05 |
| | 12 | 9-18 | 12 | 0.25 | 120 | 72% | CS03-12S12 |
| | 12 | 9-18 | 05 | 1 | 50 | 72% | CS05-12S05 |
| | 12 | 9-18 | 12 | 0.42 | 120 | 72% | CS05-12S12 |
| | 24 | 18-36 | 05 | 0.6 | 50 | 72% | CS03-24S05 |
| | 24 | 18-36 | 12 | 0.25 | 120 | 72% | CS03-24S12 |
| | 24 | 18-36 | 05 | 1 | 50 | 72% | CS05-24S05 |
| | 24 | 18-36 | 12 | 0.42 | 120 | 72% | CS05-24S12 |
| | 48 | 36-72 | 05 | 0.6 | 50 | 72% | CS03-48S05 |
| | 48 | 36-72 | 12 | 0.25 | 120 | 72% | CS03-48S12 |
| 路 | 48 | 36-72 | 05 | 1 | 50 | 72% | CS05-48S05 |
| | 48 | 36-72 | 12 | 0.42 | 120 | 72% | CS05-48S12 |
| | 24 | 18-36 | 05 | 0.6 | 50 | 72% | MZE03-24S05 |
| | 24 | 18-36 | 12 | 0.25 | 120 | 72% | MZE03-24S12 |
| | 24 | 18-36 | 05 | 1 | 50 | 72% | MZE05-24S05 |
| | 24 | 18-36 | 12 | 0.42 | 120 | 72% | MZE05-24S12 |
| | 48 | 36-72 | 05 | 0.6 | 50 | 72% | MZE03-48S05 |
| | 48 | 36-72 | 12 | 0.25 | 120 | 72% | MZE03-48S12 |
| | 48 | 36-72 | 05 | 1 | 50 | 72% | MZE05-48S05 |
| | 48 | 36-72 | 12 | 0.42 | 120 | 72% | MZE05-48S12 |
| 双 | 12 | 9-18 | ±05 | 0.3/0.3 | 50/50 | 72% | MZE03-12D05 |
| | 12 | 9-18 | ±15 | 0.1/0.1 | 150/150 | 72% | MZE03-12D15 |
| | 12 | 9-18 | ±05 | 0.5/0.5 | 50/50 | 72% | MZE05-12D05 |
| | 12 | 9-18 | ±15 | 0.17/0.17 | 150/150 | 72% | MZE05-12D15 |
| 路 | 24 | 18-36 | ±05 | 0.3/0.3 | 50/50 | 72% | MZE03-24D05 |
| | 24 | 18-36 | ±15 | 0.1/0.1 | 150/150 | 72% | MZE03-24D15 |
| | 24 | 18-36 | ±05 | 0.5/0.5 | 50/50 | 72% | MZE05-24D05 |
| | 24 | 18-36 | ±15 | 0.17/0.17 | 150/150 | 72% | MZE05-24D15 |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CD,MZD 系列

5-12W

体积小,引出脚功能兼容,
高可靠性设计



特性

Features

- 输入C型滤波 C type input filter
- 快速动态响应 Fast dynamic response
- 高转换效率 High conversion efficiency
- 自然冷却,无须附加散热器 Natural cooling, no heat sink needed
- 引出脚功能兼容 Pin function compatible

输入特性

Input Characteristics

| | | |
|--------------------------|--|-----------------------|
| 电压范围: (Voltage Range) | DC-DC 5V _{DC} (Normal) | 4.5-9V _{DC} |
| | 12V _{DC} (Normal) | 9-18V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |
| | 110V _{DC} (Normal) | 66-160V _{DC} |

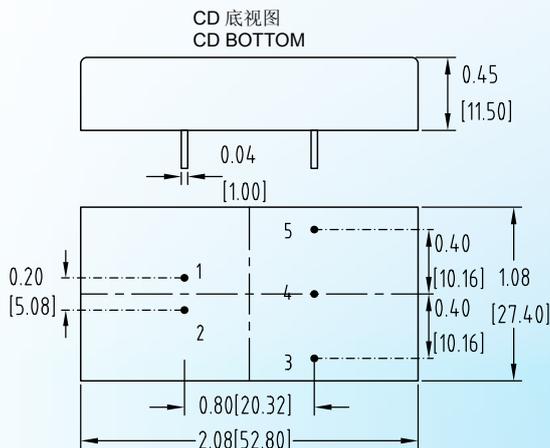
输出特性

Output Characteristics

| | |
|---|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | ±3% |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸(毫米)
ALL DIMENSIONS IN INCHES(MM)

物理特性

结构尺寸: 52.8*27.4*11.5mm(CD)
50.8*25.4*10.2mm(MZD)
重量: CD:0.05Kg MZD:0.02Kg

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

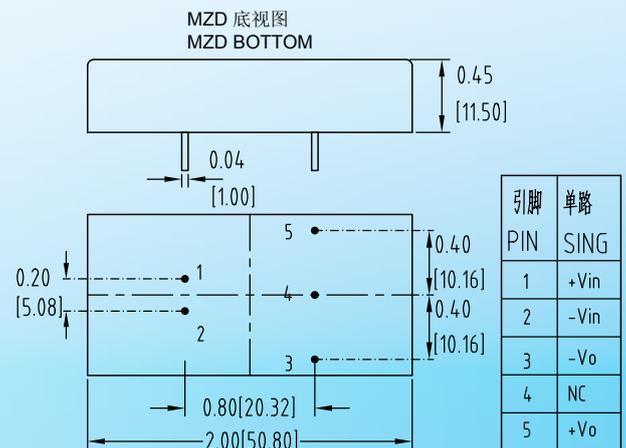
环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 12.45°C /W |
| 0.5M/S | 10.37°C /W |
| 1M/S | 7.73°C /W |
| 1.5M/S | 5.63°C /W |
| 2M/S | 4.66°C /W |



单位尺寸为英寸(毫米)
ALL DIMENSIONS IN INCHES(MM)

DC/DC CD,MZD 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 5 | 4.5-9 | 5 | 1 | 50 | 82% | CD05-05S05 |
| 5 | 4.5-9 | 8 | 0.63 | 80 | 82% | CD05-05S08 |
| 5 | 4.5-9 | 5 | 1.6 | 50 | 82% | CD08-05S05 |
| 5 | 4.5-9 | 8 | 1 | 80 | 82% | CD08-05S08 |
| 5 | 4.5-9 | 5 | 2 | 50 | 82% | CD10-05S05 |
| 5 | 4.5-9 | 12 | 0.83 | 120 | 82% | CD10-05S12 |
| 12 | 9-18 | 5 | 1.6 | 50 | 82% | CD08-12S05 |
| 12 | 9-18 | 12 | 0.67 | 120 | 82% | CD08-12S12 |
| 12 | 9-18 | 15 | 0.53 | 150 | 83% | CD08-12S15 |
| 12 | 9-18 | 5 | 2 | 50 | 82% | CD10-12S05 |
| 12 | 9-18 | 12 | 0.83 | 120 | 82% | CD10-12S12 |
| 12 | 9-18 | 15 | 0.67 | 150 | 83% | CD10-12S15 |
| 12 | 9-18 | 5 | 2.4 | 50 | 82% | CD12-12S05 |
| 12 | 9-18 | 12 | 1 | 120 | 82% | CD12-12S12 |
| 12 | 9-18 | 15 | 0.8 | 150 | 83% | CD12-12S15 |
| 12 | 9-18 | 24 | 0.5 | 200 | 83% | CD12-12S24 |
| 24 | 18-36 | 5 | 1 | 50 | 82% | CD05-24S05 |
| 24 | 18-36 | 8 | 0.63 | 80 | 82% | CD05-24S08 |
| 24 | 18-36 | 5 | 1.6 | 50 | 82% | CD08-24S05 |
| 24 | 18-36 | 8 | 1 | 80 | 82% | CD08-24S08 |
| 24 | 18-36 | 5 | 2 | 50 | 82% | CD10-24S05 |
| 24 | 18-36 | 5 | 2.4 | 50 | 82% | CD12-24S05 |
| 110 | 66-160 | 5 | 1 | 50 | 83% | CD05-110S05 |
| 110 | 66-160 | 12 | 0.42 | 120 | 82% | CD05-110S12 |
| 110 | 66-160 | 15 | 0.33 | 150 | 83% | CD05-110S15 |
| 110 | 66-160 | 12 | 0.83 | 120 | 82% | CD10-110S12 |
| 24 | 18-36 | 12 | 0.83 | 120 | 82% | MZD10-24S12 |
| 24 | 18-36 | 15 | 0.67 | 150 | 83% | MZD10-24S15 |
| 24 | 18-36 | 12 | 1 | 120 | 82% | MZD12-24S12 |
| 24 | 18-36 | 15 | 0.8 | 150 | 83% | MZD12-24S15 |
| 48 | 36-72 | 12 | 0.83 | 120 | 82% | MZD10-48S12 |
| 48 | 36-72 | 15 | 0.67 | 150 | 83% | MZD10-48S15 |
| 48 | 36-72 | 12 | 1 | 120 | 82% | MZD12-48S12 |
| 48 | 36-72 | 15 | 0.8 | 150 | 83% | MZD12-48S15 |
| 5 | 4.5-9 | ±05 | 0.5/0.5 | 50/50 | 82% | CD05-05D05 |
| 5 | 4.5-9 | ±12 | 0.21/0.21 | 120/120 | 82% | CD05-05D12 |
| 5 | 4.5-9 | ±05 | 0.8/0.8 | 50/50 | 82% | CD08-05D05 |
| 5 | 4.5-9 | ±12 | 0.33/0.33 | 120/120 | 82% | CD08-05D12 |
| 5 | 4.5-9 | ±05 | 1/1 | 50/50 | 82% | CD10-05D05 |
| 5 | 4.5-9 | ±12 | 0.42/0.42 | 120/120 | 82% | CD10-05D12 |
| 12 | 9-18 | ±05 | 0.5/0.5 | 50/50 | 82% | CD05-12D05 |
| 12 | 9-18 | ±12 | 0.21/0.21 | 120/120 | 83% | CD05-12D12 |
| 12 | 9-18 | ±05 | 1/1 | 50/50 | 82% | CD10-12D05 |
| 12 | 9-18 | ±12 | 0.42/0.42 | 120/120 | 82% | CD10-12D12 |
| 12 | 9-18 | ±15 | 0.33/0.33 | 150/150 | 83% | CD10-12D15 |
| 24 | 18-36 | ±12 | 0.42/0.42 | 120/120 | 82% | CD10-24D12 |
| 24 | 18-36 | ±15 | 0.33/0.33 | 150/150 | 83% | CD10-24D15 |
| 24 | 18-36 | ±12 | 0.5/0.5 | 120/120 | 82% | CD12-24D12 |
| 24 | 18-36 | ±15 | 0.4/0.4 | 150/150 | 83% | CD12-24D15 |
| 48 | 36-72 | ±12 | 0.42/0.42 | 120/120 | 82% | CD10-48D12 |
| 48 | 36-72 | ±15 | 0.33/0.33 | 150/150 | 83% | CD10-48D15 |
| 48 | 36-72 | ±12 | 0.5/0.5 | 120/120 | 82% | CD12-48D12 |
| 48 | 36-72 | ±15 | 0.4/0.4 | 150/150 | 83% | CD12-48D15 |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CR,CRF 系列

体积小, 可 9-36V (四倍电压输入)

5-12W



特性

Features

- 输入 C 型滤波 C type input filter
- 体积小, 重量轻 Small form factor, low weight
- 高可靠性, 长寿命设计 Design for high reliability, long lifetime
- 自然冷却, 无须附加散热器 Natural cooling, no heat sink needed
- 输入与输出隔离 Completely isolated between input & output

输入特性

Input Characteristics

| | | |
|--------------------------|---|----------------------|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) | 9-18V _{DC} |
| | 18V _{DC} (Normal) | 9-36V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |

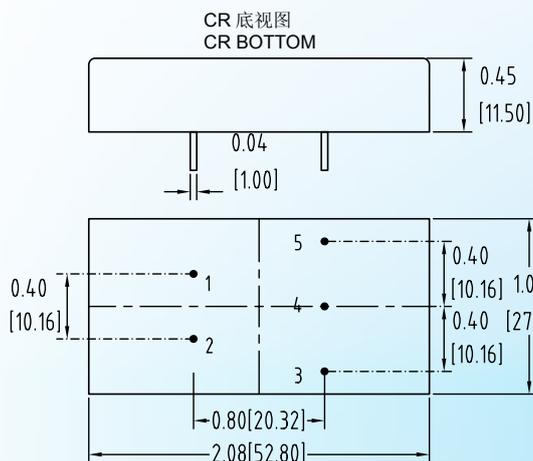
输出特性

Output Characteristics

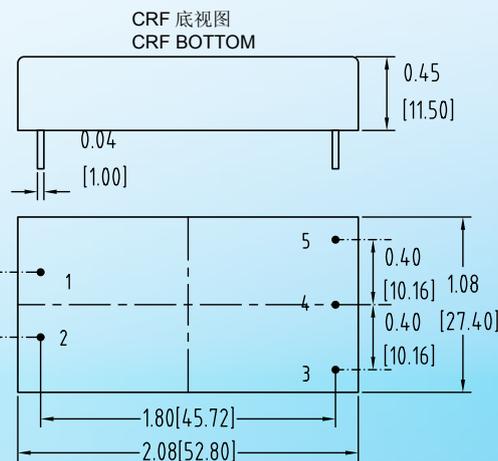
| | |
|---|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | ±3% |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

| 引脚 PIN | 单路(CR) SING | 双路(CRF) DOU |
|-----------|----------------|----------------|
| 1 | +Vin | +Vin |
| 2 | -Vin | -Vin |
| 3 | -Vo | -Vo |
| 4 | NC | GND |
| 5 | +Vo | +Vo |

物理特性

结构尺寸: 52.8*27.4*11.5mm
重量: CR:0.05Kg CRF:0.05Kg

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 12.45°C /W |
| 0.5M/S | 10.37°C /W |
| 1M/S | 7.73°C /W |
| 1.5M/S | 5.63°C /W |
| 2M/S | 4.66°C /W |

DC/DC CR,CRF 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 12 | 9-18 | 5 | 1.6 | 50 | 82% | CR08-12S05 |
| 12 | 9-18 | 12 | 0.67 | 120 | 82% | CR08-12S12 |
| 12 | 9-18 | 24 | 0.33 | 200 | 83% | CR08-12S24 |
| 12 | 9-18 | 5 | 2 | 50 | 82% | CR10-12S05 |
| 12 | 9-18 | 12 | 0.83 | 120 | 82% | CR10-12S12 |
| 12 | 9-18 | 05 | 2.4 | 50 | 82% | CR12-12S05 |
| 12 | 9-18 | 12 | 1 | 120 | 82% | CR12-12S12 |
| 12 | 9-18 | 24 | 0.5 | 200 | 83% | CR12-12S24 |
| 18 | 9-36 | 5 | 1.6 | 50 | 82% | CR08-18S05 |
| 18 | 9-36 | 12 | 0.67 | 120 | 82% | CR08-18S12 |
| 18 | 9-36 | 24 | 0.33 | 200 | 83% | CR08-18S24 |
| 18 | 9-36 | 5 | 2 | 50 | 82% | CR10-18S05 |
| 18 | 9-36 | 12 | 0.83 | 120 | 82% | CR10-18S12 |
| 18 | 9-36 | 05 | 2.4 | 50 | 82% | CR12-18S05 |
| 18 | 9-36 | 12 | 1 | 120 | 82% | CR12-18S12 |
| 18 | 9-36 | 15 | 0.8 | 150 | 83% | CR12-18S15 |
| 18 | 9-36 | 24 | 0.5 | 200 | 83% | CR12-18S24 |
| 24 | 18-36 | 5 | 1.6 | 50 | 82% | CR08-24S05 |
| 24 | 18-36 | 12 | 0.67 | 120 | 82% | CR08-24S12 |
| 24 | 18-36 | 15 | 0.53 | 150 | 83% | CR08-24S15 |
| 24 | 18-36 | 24 | 0.33 | 200 | 83% | CR08-24S24 |
| 24 | 18-36 | 05 | 2 | 50 | 82% | CR10-24S05 |
| 24 | 18-36 | 12 | 0.83 | 120 | 82% | CR10-24S12 |
| 24 | 18-36 | 15 | 0.67 | 150 | 83% | CR10-24S15 |
| 24 | 18-36 | 24 | 0.42 | 200 | 83% | CR10-24S24 |
| 24 | 18-36 | 05 | 2.4 | 50 | 82% | CR12-24S05 |
| 24 | 18-36 | 12 | 1 | 120 | 82% | CR12-24S12 |
| 24 | 18-36 | 15 | 0.8 | 150 | 83% | CR12-24S15 |
| 24 | 18-36 | 24 | 0.5 | 200 | 83% | CR12-24S24 |
| 48 | 36-72 | 05 | 2 | 50 | 82% | CR10-48S05 |
| 48 | 36-72 | 12 | 0.83 | 120 | 82% | CR10-48S12 |
| 48 | 36-72 | 15 | 0.67 | 150 | 83% | CR10-48S15 |
| 48 | 36-72 | 24 | 0.42 | 200 | 83% | CR10-48S24 |
| 48 | 36-72 | 05 | 2.4 | 50 | 82% | CR12-48S05 |
| 48 | 36-72 | 12 | 1 | 120 | 82% | CR12-48S12 |
| 48 | 36-72 | 15 | 0.8 | 150 | 83% | CR12-48S15 |
| 48 | 36-72 | 24 | 0.5 | 200 | 83% | CR12-48S24 |
| 12 | 9-18 | ±05 | 0.8/0.8 | 50/50 | 82% | CRF08-12D05 |
| 12 | 9-18 | ±12 | 0.33/0.33 | 120/120 | 83% | CRF08-12D12 |
| 12 | 9-18 | ±15 | 0.27/0.27 | 150/150 | 82% | CRF08-12D15 |
| 12 | 9-18 | ±05 | 1/1 | 50/50 | 83% | CRF10-12D05 |
| 12 | 9-18 | ±12 | 0.42/0.42 | 120/120 | 82% | CRF10-12D12 |
| 12 | 9-18 | ±15 | 0.33/0.33 | 150/150 | 83% | CRF10-12D15 |
| 24 | 18-36 | ±05 | 0.8/0.8 | 50/50 | 82% | CRF08-24D05 |
| 24 | 18-36 | ±12 | 0.33/0.33 | 120/120 | 83% | CRF08-24D12 |
| 24 | 18-36 | ±15 | 0.27/0.27 | 150/150 | 82% | CRF08-24D15 |
| 24 | 18-36 | ±05 | 1/1 | 50/50 | 83% | CRF10-24D05 |
| 24 | 18-36 | ±12 | 0.42/0.42 | 120/120 | 82% | CRF10-24D12 |
| 24 | 18-36 | ±15 | 0.33/0.33 | 150/150 | 83% | CRF10-24D15 |
| 48 | 36-72 | ±12 | 0.5/0.5 | 120/120 | 82% | CRF12-48D12 |
| 48 | 36-72 | ±15 | 0.4/0.4 | 150/150 | 83% | CRF12-48D15 |
| 48 | 36-72 | ±12 | 0.625/0.625 | 120/120 | 82% | CRF15-48D12 |
| 48 | 36-72 | ±15 | 0.5/0.5 | 150/150 | 83% | CRF15-48D15 |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CJ 系列

体积小，可 9-36V (四倍电压输入)
引出脚功能兼容

15-20W



物理特性

结构尺寸: 50.8*40.6*12.5mm
重量: 0.05Kg

特性

Features

- 输入 C 型滤波 C type input filter
- 体积小 Small form factor
- 高可靠性, 长寿命设计 Design for high reliability, long lifetime
- 引出脚功能兼容 Pin function compatible
- 高功率密度 High power density

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 9. 60°C /W |
| 0. 5M/S | 8. 0°C /W |
| 1M/S | 6. 15°C /W |
| 1. 5M/S | 4. 50°C /W |
| 2M/S | 3. 80°C /W |

输入特性

Input Characteristics

| | | | |
|--------------------------|--------------|-----------------------------|-----------------------|
| 电压范围: (Voltage Range) | DC-DC | 12V _{DC} (Normal) | 9-18V _{DC} |
| | | 18V _{DC} (Normal) | 9-36V _{DC} |
| | | 24V _{DC} (Normal) | 18-36V _{DC} |
| | | 48V _{DC} (Normal) | 36-72V _{DC} |
| | | 110V _{DC} (Normal) | 66-160V _{DC} |

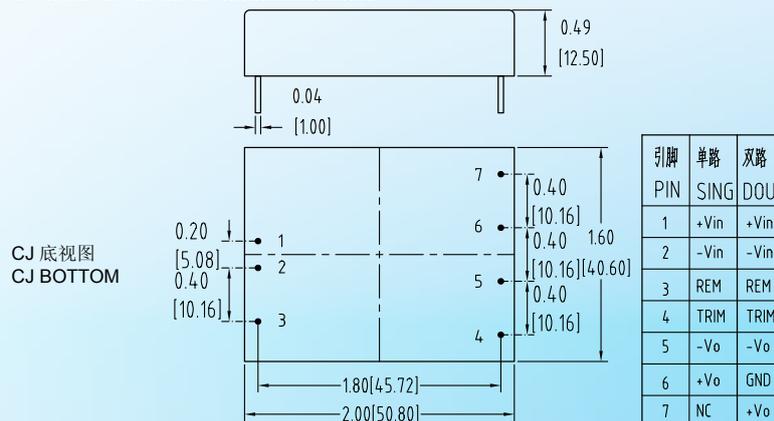
输出特性

Output Characteristics

| | |
|---|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率 (主路): (Line Regulation) | ± 0.2% |
| 负载调整率 (主路): (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | ±3% |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

DC/DC CJ 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 12 | 9-18 | 5 | 3 | 50 | 75% | CJ15-12S05 |
| 12 | 9-18 | 12 | 1.25 | 120 | 82% | CJ15-12S12 |
| 12 | 9-18 | 24 | 0.63 | 200 | 83% | CJ15-12S24 |
| 12 | 9-18 | 5 | 4 | 50 | 75% | CJ20-12S05 |
| 12 | 9-18 | 12 | 1.67 | 120 | 82% | CJ20-12S12 |
| 12 | 9-18 | 24 | 0.83 | 200 | 83% | CJ20-12S24 |
| 18 | 9-36 | 5 | 3 | 50 | 75% | CJ15-18S05 |
| 18 | 9-36 | 12 | 1.25 | 120 | 82% | CJ15-18S12 |
| 18 | 9-36 | 24 | 0.63 | 200 | 83% | CJ15-18S24 |
| 18 | 9-36 | 5 | 4 | 50 | 75% | CJ20-18S05 |
| 18 | 9-36 | 12 | 1.67 | 120 | 82% | CJ20-18S12 |
| 18 | 9-36 | 24 | 0.83 | 200 | 83% | CJ20-18S24 |
| 24 | 18-36 | 5 | 3 | 50 | 75% | CJ15-24S05 |
| 24 | 18-36 | 12 | 1.25 | 120 | 82% | CJ15-24S12 |
| 24 | 18-36 | 24 | 0.63 | 200 | 83% | CJ15-24S24 |
| 24 | 18-36 | 5 | 4 | 50 | 75% | CJ20-24S05 |
| 24 | 18-36 | 12 | 1.67 | 120 | 82% | CJ20-24S12 |
| 24 | 18-36 | 24 | 0.83 | 200 | 83% | CJ20-24S24 |
| 48 | 36-72 | 5 | 3 | 50 | 75% | CJ15-48S05 |
| 48 | 36-72 | 12 | 1.25 | 120 | 82% | CJ15-48S12 |
| 48 | 36-72 | 24 | 0.63 | 200 | 83% | CJ15-48S24 |
| 48 | 36-72 | 5 | 4 | 50 | 75% | CJ20-48S05 |
| 48 | 36-72 | 12 | 1.67 | 120 | 82% | CJ20-48S12 |
| 48 | 36-72 | 24 | 0.83 | 200 | 83% | CJ20-48S24 |
| 110 | 66-160 | 5 | 3 | 50 | 75% | CJ15-110S05 |
| 110 | 66-160 | 12 | 1.25 | 120 | 82% | CJ15-110S12 |
| 110 | 66-160 | 24 | 0.63 | 200 | 83% | CJ15-110S24 |
| 110 | 66-160 | 5 | 4 | 50 | 82% | CJ20-110S05 |
| 110 | 66-160 | 12 | 1.67 | 120 | 82% | CJ20-110S12 |
| 110 | 66-160 | 24 | 0.83 | 200 | 83% | CJ20-110S24 |
| 12 | 9-18 | ±05 | 1.5/1.5 | 50/50 | 82% | CJ15-12D05 |
| 12 | 9-18 | ±12 | 0.63/0.63 | 120/120 | 82% | CJ15-12D12 |
| 12 | 9-18 | ±24 | 0.31/0.31 | 200/200 | 83% | CJ15-12D24 |
| 12 | 9-18 | ±05 | 2/2 | 50/50 | 82% | CJ20-12D05 |
| 12 | 9-18 | ±12 | 0.83/0.83 | 120/120 | 82% | CJ20-12D12 |
| 12 | 9-18 | ±24 | 0.42/0.42 | 200/200 | 83% | CJ20-12D24 |
| 24 | 18-36 | ±05 | 1.5/1.5 | 50/50 | 82% | CJ15-24D05 |
| 24 | 18-36 | ±12 | 0.63/0.63 | 120/120 | 82% | CJ15-24D12 |
| 24 | 18-36 | ±24 | 0.31/0.31 | 200/200 | 83% | CJ15-24D24 |
| 24 | 18-36 | ±05 | 2/2 | 50/50 | 82% | CJ20-24D05 |
| 24 | 18-36 | ±12 | 0.83/0.83 | 120/120 | 82% | CJ20-24D12 |
| 24 | 18-36 | ±24 | 0.42/0.42 | 200/200 | 83% | CJ20-24D24 |
| 48 | 36-72 | ±05 | 1.5/1.5 | 50/50 | 82% | CJ15-48D05 |
| 48 | 36-72 | ±12 | 0.63/0.63 | 120/120 | 82% | CJ15-48D12 |
| 48 | 36-72 | ±24 | 0.31/0.31 | 200/200 | 83% | CJ15-48D24 |
| 48 | 36-72 | ±05 | 2/2 | 50/50 | 82% | CJ20-48D05 |
| 48 | 36-72 | ±12 | 0.83/0.83 | 120/120 | 82% | CJ20-48D12 |
| 48 | 36-72 | ±24 | 0.42/0.42 | 200/200 | 83% | CJ20-48D24 |
| 48 | 36-72 | ±48 | 0.21/0.21 | 300/300 | 85% | CJ20-48D48 |
| 110 | 66-160 | ±12 | 0.63/0.63 | 120/120 | 82% | CJ15-110D12 |
| 110 | 66-160 | ±24 | 0.31/0.31 | 200/200 | 83% | CJ15-110D24 |
| 110 | 66-160 | ±12 | 0.83/0.83 | 120/120 | 82% | CJ20-110D12 |
| 110 | 66-160 | ±24 | 0.42/0.42 | 200/200 | 83% | CJ20-110D24 |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CB, CBH 系列

15-30W

体积小, 可 9-36V (四倍电压输入)
引出脚功能兼容



特性

Features

- 快速动态响应 Fast dynamic response
- 功率覆盖范围广, 便于升级 Wide range of power, easy to upgrade
- 引出脚功能兼容 Pin function compatible
- 输入与输出隔离 Completely isolated between input & output
- 高功率密度 High power density

输入特性

Input Characteristics

| | | | |
|--------------------------|--------------|----------------------------|----------------------|
| 电压范围: (Voltage Range) | DC-DC | 12V _{DC} (Normal) | 9-18V _{DC} |
| | | 24V _{DC} (Normal) | 18-36V _{DC} |
| | | 48V _{DC} (Normal) | 36-72V _{DC} |

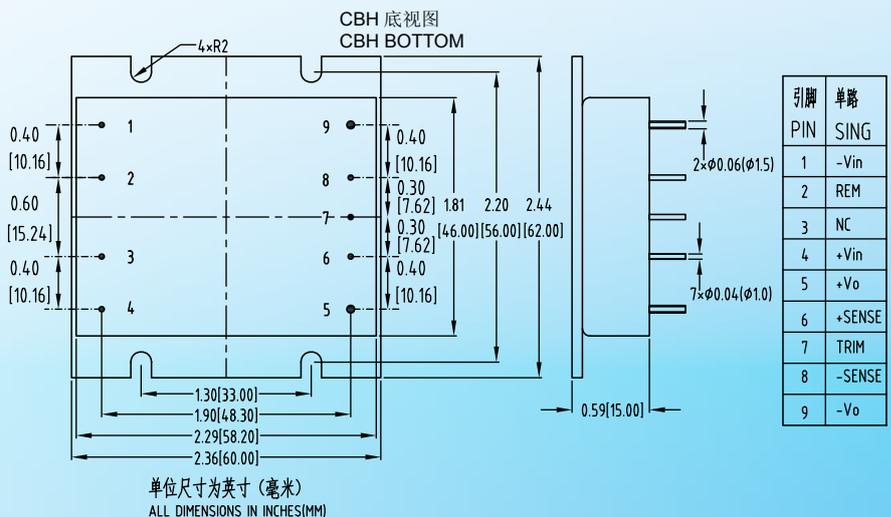
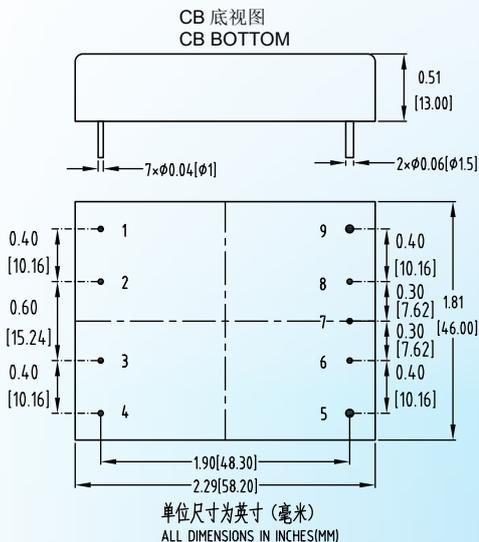
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



物理特性

结构尺寸: 58.2*46*15mm(CB)
60*62*17mm(CBH)
重量: CB/CBH:0.08Kg

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| 存储温度: (Storage Temperature) | 军 II (Military II) | -55~+85°C |
| | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | | |
|-----------------------------|----------|----------|
| 冷却方式: (Cooling) | 热阻 (CB) | 热阻 (CBH) |
| 自然风冷: (Breeze of Nature) | 6.80°C/W | 5.58°C/W |
| 0.5M/S | 5.67°C/W | 4.65°C/W |
| 1M/S | 4.23°C/W | 3.10°C/W |
| 1.5M/S | 3.08°C/W | 2.52°C/W |
| 2M/S | 2.55°C/W | 2.09°C/W |

DC/DC CB, CBH 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 12 | 9-18 | 5 | 3 | 50 | 82% | CB(H) 15-12S05 |
| 12 | 9-18 | 12 | 1.25 | 120 | 82% | CB(H) 15-12S12 |
| 12 | 9-18 | 15 | 1 | 150 | 82% | CB(H) 15-12S15 |
| 12 | 9-18 | 24 | 0.63 | 200 | 83% | CB(H) 15-12S24 |
| 12 | 9-18 | 36 | 0.42 | 300 | 83% | CB(H) 15-12S36 |
| 12 | 9-18 | 48 | 0.31 | 300 | 84% | CB(H) 15-12S48 |
| 12 | 9-18 | 5 | 4 | 50 | 82% | CB(H) 20-12S05 |
| 12 | 9-18 | 12 | 1.67 | 120 | 82% | CB(H) 20-12S12 |
| 12 | 9-18 | 24 | 0.83 | 200 | 83% | CB(H) 20-12S24 |
| 12 | 9-18 | 48 | 0.42 | 300 | 84% | CB(H) 20-12S48 |
| 12 | 9-18 | 5 | 5 | 50 | 82% | CB(H) 25-12S05 |
| 12 | 9-18 | 12 | 2.08 | 120 | 82% | CB(H) 25-12S12 |
| 12 | 9-18 | 24 | 1.04 | 200 | 83% | CB(H) 25-12S24 |
| 12 | 9-18 | 48 | 0.52 | 300 | 84% | CB(H) 25-12S48 |
| 12 | 9-18 | 5 | 6 | 50 | 82% | CB(H) 30-12S05 |
| 12 | 9-18 | 12 | 2.5 | 120 | 82% | CB(H) 30-12S12 |
| 12 | 9-18 | 24 | 1.25 | 200 | 83% | CB(H) 30-12S24 |
| 12 | 9-18 | 48 | 0.63 | 300 | 84% | CB(H) 30-12S48 |
| 24 | 18-36 | 5 | 3 | 50 | 82% | CB(H) 15-24S05 |
| 24 | 18-36 | 12 | 1.25 | 120 | 82% | CB(H) 15-24S12 |
| 24 | 18-36 | 24 | 0.63 | 200 | 83% | CB(H) 15-24S24 |
| 24 | 18-36 | 36 | 0.42 | 300 | 83% | CB(H) 15-24S36 |
| 24 | 18-36 | 48 | 0.31 | 300 | 84% | CB(H) 15-24S48 |
| 24 | 18-36 | 5 | 4 | 50 | 82% | CB(H) 20-24S05 |
| 24 | 18-36 | 12 | 1.67 | 120 | 82% | CB(H) 20-24S12 |
| 24 | 18-36 | 24 | 0.83 | 200 | 83% | CB(H) 20-24S24 |
| 24 | 18-36 | 48 | 0.42 | 300 | 84% | CB(H) 20-24S48 |
| 24 | 18-36 | 5 | 5 | 50 | 82% | CB(H) 25-24S05 |
| 24 | 18-36 | 12 | 2.08 | 120 | 82% | CB(H) 25-24S12 |
| 24 | 18-36 | 24 | 1.04 | 200 | 83% | CB(H) 25-24S24 |
| 24 | 18-36 | 48 | 0.52 | 300 | 84% | CB(H) 25-24S48 |
| 24 | 18-36 | 5 | 6 | 50 | 82% | CB(H) 30-24S05 |
| 24 | 18-36 | 12 | 2.5 | 120 | 82% | CB(H) 30-24S12 |
| 24 | 18-36 | 24 | 1.25 | 200 | 83% | CB(H) 30-24S24 |
| 24 | 18-36 | 48 | 0.63 | 300 | 84% | CB(H) 30-24S48 |
| 48 | 36-72 | 5 | 3 | 50 | 82% | CB(H) 15-48S05 |
| 48 | 36-72 | 12 | 1.25 | 120 | 82% | CB(H) 15-48S12 |
| 48 | 36-72 | 24 | 0.63 | 200 | 83% | CB(H) 15-48S24 |
| 48 | 36-72 | 36 | 0.42 | 300 | 83% | CB(H) 15-48S36 |
| 48 | 36-72 | 48 | 0.31 | 300 | 84% | CB(H) 15-48S48 |
| 48 | 36-72 | 5 | 4 | 50 | 82% | CB(H) 20-48S05 |
| 48 | 36-72 | 12 | 1.67 | 120 | 82% | CB(H) 20-48S12 |
| 48 | 36-72 | 24 | 0.83 | 200 | 83% | CB(H) 20-48S24 |
| 48 | 36-72 | 48 | 0.42 | 300 | 84% | CB(H) 20-48S48 |
| 48 | 36-72 | 5 | 5 | 50 | 82% | CB(H) 25-48S05 |
| 48 | 36-72 | 12 | 2.08 | 120 | 82% | CB(H) 25-48S12 |
| 48 | 36-72 | 24 | 1.04 | 200 | 83% | CB(H) 25-48S24 |
| 48 | 36-72 | 36 | 0.69 | 300 | 84% | CB(H) 25-48S36 |
| 48 | 36-72 | 48 | 0.52 | 300 | 84% | CB(H) 25-48S48 |
| 48 | 36-72 | 5 | 6 | 50 | 82% | CB(H) 30-48S05 |
| 48 | 36-72 | 12 | 2.5 | 120 | 82% | CB(H) 30-48S12 |
| 48 | 36-72 | 24 | 1.25 | 200 | 83% | CB(H) 30-48S24 |
| 48 | 36-72 | 48 | 0.63 | 300 | 84% | CB(H) 30-48S48 |

单
路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CRZ 系列

体积小, 宽电压输入范围

30-50W



物理特性

结构尺寸: 71*37*15mm
重量: 0.09Kg

特性

Features

- 可高压输入 Design for high voltage input
- 快速动态响应 Fast dynamic response
- 高效率, 高可靠性 Design for high efficiency, high reliability
- 高功率密度 High power density
- 引出脚功能兼容 Pin function compatible

输入特性

Input Characteristics

| | | |
|--------------------------|---|------------------------|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) | 9-18V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |
| | 110V _{DC} (Normal) | 66-160V _{DC} |
| | 300V _{DC} (Normal) | 200-400V _{DC} |

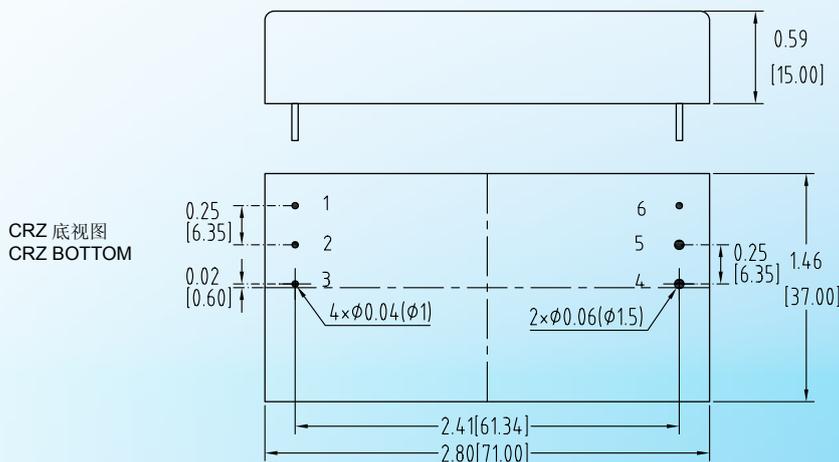
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



| 引脚 PIN | 单路 SING |
|-----------|------------|
| 1 | -Vin |
| 2 | REM |
| 3 | +Vin |
| 4 | +Vo |
| 5 | -Vo |
| 6 | TRIM |

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 8. 20°C /W |
| 0. 5M/S | 6. 83°C /W |
| 1M/S | 5. 13°C /W |
| 1. 5M/S | 3. 73°C /W |
| 2M/S | 3. 07°C /W |

单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

DC/DC CRZ 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 12 | 9-18 | 5 | 6 | 50 | 82% | CRZ30-12S05 |
| 12 | 9-18 | 12 | 2.5 | 120 | 82% | CRZ30-12S12 |
| 12 | 9-18 | 15 | 2 | 150 | 82% | CRZ30-12S15 |
| 12 | 9-18 | 24 | 1.25 | 200 | 83% | CRZ30-12S24 |
| 12 | 9-18 | 5 | 8 | 50 | 82% | CRZ40-12S05 |
| 12 | 9-18 | 12 | 3.33 | 120 | 82% | CRZ40-12S12 |
| 12 | 9-18 | 15 | 2.67 | 150 | 82% | CRZ40-12S15 |
| 12 | 9-18 | 24 | 1.67 | 200 | 83% | CRZ40-12S24 |
| 12 | 9-18 | 36 | 1.11 | 300 | 83% | CRZ40-12S36 |
| 12 | 9-18 | 48 | 0.83 | 300 | 82% | CRZ40-12S48 |
| 12 | 9-18 | 24 | 2.08 | 200 | 83% | CRZ50-12S24 |
| 12 | 9-18 | 48 | 1.04 | 300 | 84% | CRZ50-12S48 |
| 24 | 18-36 | 5 | 6 | 50 | 82% | CRZ30-24S05 |
| 24 | 18-36 | 12 | 2.5 | 120 | 82% | CRZ30-24S12 |
| 24 | 18-36 | 15 | 2 | 150 | 82% | CRZ30-24S15 |
| 24 | 18-36 | 24 | 1.25 | 200 | 83% | CRZ30-24S24 |
| 24 | 18-36 | 5 | 8 | 50 | 82% | CRZ40-24S05 |
| 24 | 18-36 | 12 | 3.33 | 120 | 82% | CRZ40-24S12 |
| 24 | 18-36 | 24 | 1.67 | 200 | 83% | CRZ40-24S24 |
| 24 | 18-36 | 48 | 0.83 | 300 | 82% | CRZ40-24S48 |
| 24 | 18-36 | 12 | 4.17 | 120 | 82% | CRZ50-24S12 |
| 24 | 18-36 | 24 | 2.08 | 200 | 83% | CRZ50-24S24 |
| 24 | 18-36 | 48 | 1.04 | 300 | 84% | CRZ50-24S48 |
| 48 | 36-72 | 5 | 6 | 50 | 82% | CRZ30-48S05 |
| 48 | 36-72 | 12 | 2.5 | 120 | 82% | CRZ30-48S12 |
| 48 | 36-72 | 24 | 1.25 | 200 | 83% | CRZ30-48S24 |
| 48 | 36-72 | 5 | 8 | 50 | 82% | CRZ40-48S05 |
| 48 | 36-72 | 12 | 3.33 | 120 | 82% | CRZ40-48S12 |
| 48 | 36-72 | 24 | 1.67 | 200 | 83% | CRZ40-48S24 |
| 48 | 36-72 | 48 | 0.83 | 300 | 82% | CRZ40-48S48 |
| 48 | 36-72 | 12 | 4.17 | 120 | 82% | CRZ50-48S12 |
| 48 | 36-72 | 24 | 2.08 | 200 | 83% | CRZ50-48S24 |
| 48 | 36-72 | 48 | 1.04 | 300 | 84% | CRZ50-48S48 |
| 110 | 66-160 | 5 | 6 | 50 | 82% | CRZ30-110S05 |
| 110 | 66-160 | 12 | 2.5 | 120 | 82% | CRZ30-110S12 |
| 110 | 66-160 | 24 | 1.25 | 200 | 83% | CRZ30-110S24 |
| 110 | 66-160 | 5 | 8 | 50 | 82% | CRZ40-110S05 |
| 110 | 66-160 | 12 | 3.33 | 120 | 82% | CRZ40-110S12 |
| 110 | 66-160 | 24 | 1.67 | 200 | 83% | CRZ40-110S24 |
| 110 | 66-160 | 5 | 10 | 50 | 82% | CRZ50-110S05 |
| 110 | 66-160 | 12 | 4.17 | 120 | 82% | CRZ50-110S12 |
| 110 | 66-160 | 24 | 2.08 | 200 | 83% | CRZ50-110S24 |
| 110 | 66-160 | 48 | 1.04 | 300 | 84% | CRZ50-110S48 |
| 300 | 200-400 | 5 | 6 | 50 | 82% | CRZ30-300S05 |
| 300 | 200-400 | 12 | 2.50 | 120 | 82% | CRZ30-300S12 |
| 300 | 200-400 | 24 | 1.25 | 200 | 83% | CRZ30-300S24 |
| 300 | 200-400 | 5 | 8 | 50 | 82% | CRZ40-300S05 |
| 300 | 200-400 | 12 | 3.33 | 120 | 82% | CRZ40-300S12 |
| 300 | 200-400 | 24 | 1.67 | 200 | 83% | CRZ40-300S24 |
| 300 | 200-400 | 48 | 0.83 | 300 | 82% | CRZ40-300S48 |
| 300 | 200-400 | 12 | 4.17 | 120 | 82% | CRZ50-300S12 |
| 300 | 200-400 | 24 | 2.08 | 200 | 83% | CRZ50-300S24 |
| 300 | 200-400 | 48 | 1.04 | 300 | 84% | CRZ50-300S48 |

单
路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CA,CAH 系列

25-40W

引出脚功能兼容，输入可 9-36V
(四倍电压输入)，安装方便



特性

Features

- 输入 π 型滤波 π type input filter
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 高可靠性，长寿命设计 Design for high reliability,long lifetime
- 引出脚功能兼容 Pin function compatible
- 主副路电压精度高 Main & Aux output voltages with high accuracy

输入特性

Input Characteristics

| | | |
|--------------------------|--|----------------------|
| 电压范围: (Voltage Range) | DC-DC 5V _{DC} (Normal) | 4.5-9V _{DC} |
| | 12V _{DC} (Normal) | 9-18V _{DC} |
| | 18V _{DC} (Normal) | 9-36V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |

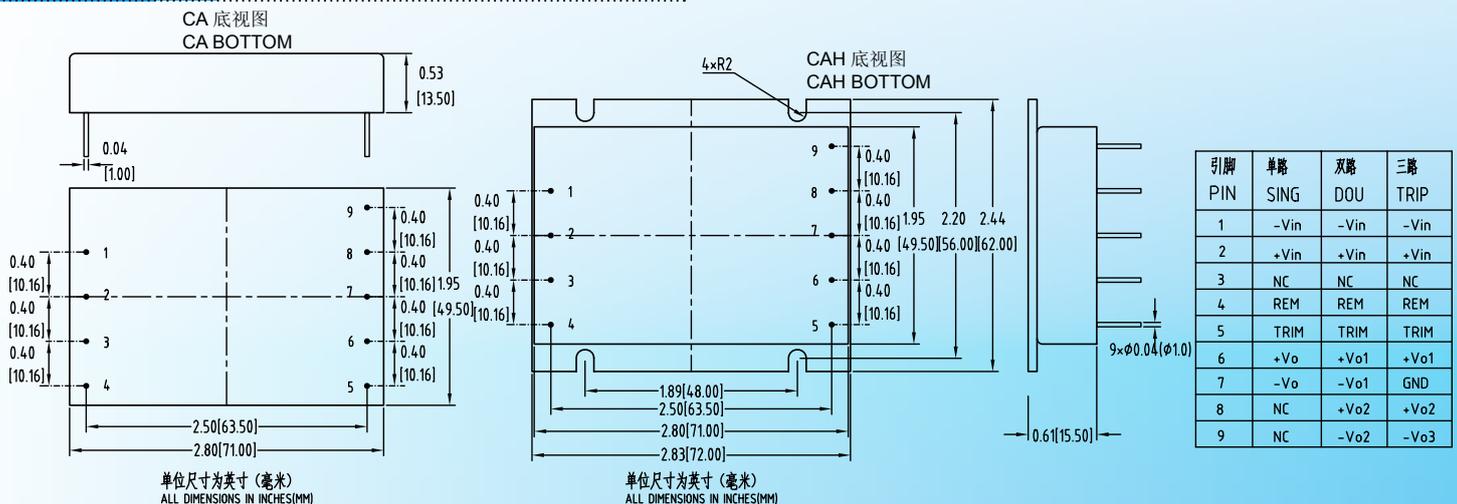
输出特性

Output Characteristics

| | |
|---|-------------------------------|
| 稳压精度: (Regulated Voltage Accuracy) | $\pm 1\%$ |
| 输出电压调节范围: (Line Regulation) | $\pm 10\%$ |
| 电压调整率 (主路): (Line Regulation) | $\pm 0.2\%$ |
| 负载调整率 (主路): (Load Regulation) | $\pm 0.5\%$ |
| 温度变化率: (Temperature Coefficient) | $\pm 0.02\% / ^\circ\text{C}$ |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | $\pm 3\%$ |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



物理特性

结构尺寸: 71*49.5*13.5mm(CA)
72*62*15.5mm(CAH)
重量: CA:0.13Kg CAH:0.1Kg

一般特性

General Characteristics

| | |
|--------------------------------------|---------------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)M Ω |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|---------------------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ\text{C}$ |
| | 军 I (Military I) | -40~+85 $^\circ\text{C}$ |
| | 军 II (Military II) | -55~+85 $^\circ\text{C}$ |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ\text{C}$ |
| | 军品 (Military) | -55~+105 $^\circ\text{C}$ |

热阻特性

Thermal Characteristics

| 冷却方式: (Cooling) | 热阻 (CA) 热阻 (CAH) (Thermal Resistance) | |
|-----------------------------|--|--------------------------------|
| 自然风冷: (Breeze of Nature) | 7.75 $^\circ\text{C}/\text{W}$ | 5.82 $^\circ\text{C}/\text{W}$ |
| 0.5M/S | 6.46 $^\circ\text{C}/\text{W}$ | 4.85 $^\circ\text{C}/\text{W}$ |
| 1M/S | 4.81 $^\circ\text{C}/\text{W}$ | 3.61 $^\circ\text{C}/\text{W}$ |
| 1.5M/S | 3.51 $^\circ\text{C}/\text{W}$ | 2.63 $^\circ\text{C}/\text{W}$ |
| 2M/S | 2.90 $^\circ\text{C}/\text{W}$ | 2.18 $^\circ\text{C}/\text{W}$ |

DC/DC CA,CAH 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------------|
| 5 | 4.5-9 | 5 | 5 | 50 | 82% | CA (H) 25-05S05 |
| 5 | 4.5-9 | 12 | 2.08 | 120 | 82% | CA (H) 25-05S12 |
| 5 | 4.5-9 | 5 | 6 | 50 | 83% | CA (H) 30-05S05 |
| 5 | 4.5-9 | 12 | 2.5 | 120 | 82% | CA (H) 30-05S12 |
| 5 | 4.5-9 | 15 | 2 | 150 | 83% | CA (H) 30-05S15 |
| 5 | 4.5-9 | 12 | 3.33 | 120 | 82% | CA (H) 40-05S12 |
| 5 | 4.5-9 | 24 | 1.67 | 200 | 83% | CA (H) 40-05S24 |
| 12 | 9-18 | 5 | 5 | 50 | 82% | CA (H) 25-12S05 |
| 12 | 9-18 | 12 | 2.08 | 120 | 82% | CA (H) 25-12S12 |
| 12 | 9-18 | 24 | 1.04 | 200 | 83% | CA (H) 25-12S24 |
| 12 | 9-18 | 5 | 6 | 50 | 83% | CA (H) 30-12S05 |
| 12 | 9-18 | 12 | 2.5 | 120 | 82% | CA (H) 30-12S12 |
| 12 | 9-18 | 24 | 1.25 | 200 | 83% | CA (H) 30-12S24 |
| 12 | 9-18 | 15 | 2.67 | 150 | 83% | CA (H) 40-12S15 |
| 12 | 9-18 | 24 | 1.67 | 200 | 83% | CA (H) 40-12S24 |
| 18 | 9-36 | 5 | 5 | 50 | 82% | CA (H) 25-18S05 |
| 18 | 9-36 | 12 | 2.08 | 120 | 82% | CA (H) 25-18S12 |
| 18 | 9-36 | 24 | 1.04 | 200 | 83% | CA (H) 25-18S24 |
| 18 | 9-36 | 5 | 6 | 50 | 83% | CA (H) 30-18S05 |
| 18 | 9-36 | 12 | 2.5 | 120 | 82% | CA (H) 30-18S12 |
| 18 | 9-36 | 24 | 1.25 | 200 | 83% | CA (H) 30-18S24 |
| 18 | 9-36 | 15 | 2.67 | 150 | 83% | CA (H) 40-18S15 |
| 18 | 9-36 | 24 | 1.67 | 200 | 83% | CA (H) 40-18S24 |
| 24 | 18-36 | 5 | 5 | 50 | 82% | CA (H) 25-24S05 |
| 24 | 18-36 | 12 | 2.08 | 120 | 82% | CA (H) 25-24S12 |
| 24 | 18-36 | 24 | 1.04 | 200 | 83% | CA (H) 25-24S24 |
| 24 | 18-36 | 24 | 1.25 | 200 | 83% | CA (H) 30-24S24 |
| 24 | 18-36 | 5 | 8 | 50 | 82% | CA (H) 40-24S05 |
| 24 | 18-36 | 12 | 3.33 | 120 | 83% | CA (H) 40-24S12 |
| 24 | 18-36 | 24 | 1.67 | 200 | 83% | CA (H) 40-24S24 |
| 48 | 36-72 | 5 | 6 | 50 | 82% | CA (H) 30-48S05 |
| 48 | 36-72 | 12 | 2.5 | 120 | 83% | CA (H) 30-48S12 |
| 48 | 36-72 | 24 | 1.25 | 200 | 83% | CA (H) 30-48S24 |
| 48 | 36-72 | 5 | 8 | 50 | 82% | CA (H) 40-48S05 |
| 48 | 36-72 | 12 | 3.33 | 120 | 83% | CA (H) 40-48S12 |
| 48 | 36-72 | 24 | 1.67 | 200 | 83% | CA (H) 40-48S24 |
| 12 | 9-18 | 05&05 | 2.5&2.5 | 50&50 | 82% | CA (H) 25-12D05&05 |
| 12 | 9-18 | 05&12 | 1&1.67 | 50&120 | 83% | CA (H) 25-12D05&12 |
| 12 | 9-18 | 05&05 | 3&3 | 50&50 | 82% | CA (H) 30-12D05&05 |
| 12 | 9-18 | 05&12 | 2&1.67 | 50&120 | 83% | CA (H) 30-12D05&12 |
| 24 | 18-36 | 05&12 | 2&1.67 | 50&120 | 82% | CA (H) 30-24D05&12 |
| 24 | 18-36 | 05&24 | 1&1 | 50&200 | 83% | CA (H) 30-24D05&24 |
| 24 | 18-36 | 12&12 | 1.67&1.67 | 120&120 | 82% | CA (H) 40-24D12&12 |
| 24 | 18-36 | 12&24 | 1.25&1 | 120&200 | 83% | CA (H) 40-24D12&24 |
| 48 | 36-72 | 05&12 | 2&1.67 | 50&120 | 82% | CA (H) 30-48D05&12 |
| 48 | 36-72 | 05&24 | 1&1 | 50&200 | 83% | CA (H) 30-48D05&24 |
| 48 | 36-72 | 12&12 | 1.67&1.67 | 120&120 | 82% | CA (H) 40-48D12&12 |
| 48 | 36-72 | 12&24 | 1.25&1 | 120&200 | 83% | CA (H) 40-48D12&24 |
| 12 | 9-18 | ±05, +12 | 2/2/0.8 | 50/50/120 | 82% | CA (H) 30-12T05+12 |
| 24 | 18-36 | ±12, +05 | 0.7/0.7/5 | 120/120/50 | 82% | CA (H) 40-24T12+05 |
| 24 | 18-36 | ±15, +05 | 0.67/0.67/4 | 150/150/50 | 83% | CA (H) 40-24T15+05 |
| 48 | 36-72 | ±05, +15 | 2/2/0.7 | 50/50/150 | 82% | CA (H) 30-48T05+15 |
| 48 | 36-72 | ±15, +05 | 0.67/0.67/4 | 150/150/50 | 83% | CA (H) 40-48T15+05 |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CG 系列

体积小, 双路独立稳压

30-60W



特性

Features

- 输入 π 型滤波 π type input filter
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广, 便于升级 Wide range of power, easy to upgrade
- 双路稳定输出 Two stable outputs
- 引出脚功能兼容 Pin function compatible

输入特性

Input Characteristics

| | |
|--------------------------|---|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) 9-18V _{DC} |
| | 24V _{DC} (Normal) 18-36V _{DC} |
| | 48V _{DC} (Normal) 36-72V _{DC} |

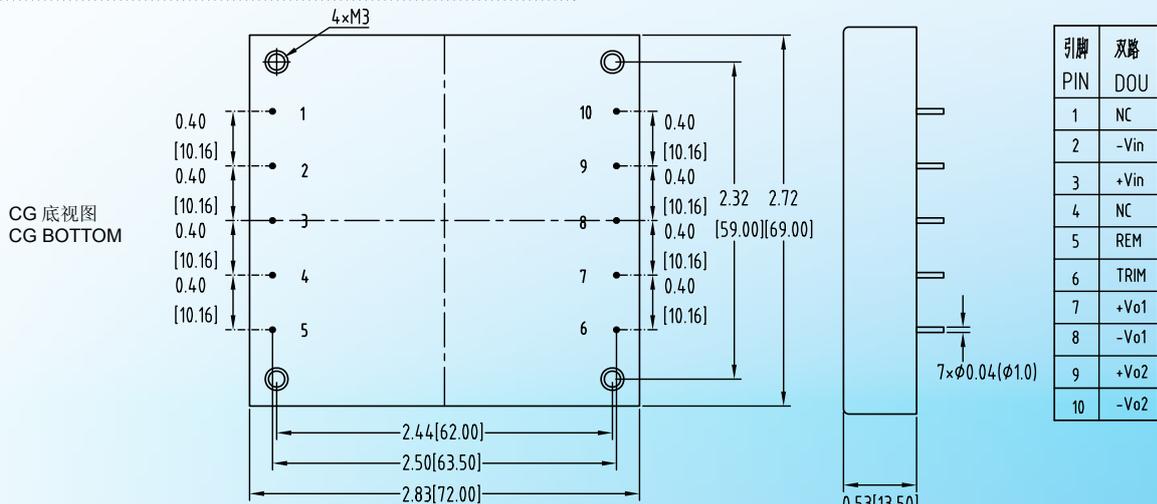
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------------------------|
| 稳压精度: (Regulated Voltage Accuracy) | $\pm 1\%$ |
| 输出电压调节范围: (Line Regulation) | $\pm 10\%$ |
| 电压调整率: (Line Regulation) | $\pm 0.2\%$ |
| 负载调整率: (Load Regulation) | $\pm 0.5\%$ |
| 温度变化率: (Temperature Coefficient) | $\pm 0.02\% / ^\circ\text{C}$ |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

物理特性

结构尺寸: 72*69*13.5mm
重量: 0.12Kg

一般特性

General Characteristics

| | |
|--------------------------------------|----------------------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ) $\text{M}\Omega$ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|---------------------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ\text{C}$ |
| | 军 I (Military I) | -40~+85 $^\circ\text{C}$ |
| | 军 II (Military II) | -55~+85 $^\circ\text{C}$ |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ\text{C}$ |
| | 军品 (Military) | -55~+105 $^\circ\text{C}$ |

热阻特性

Thermal Characteristics

| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) | 热阻 (加散热器) |
|-----------------------------|--------------------------------|--------------------------------|
| 自然风冷: (Breeze of Nature) | 5.50 $^\circ\text{C}/\text{W}$ | 4.55 $^\circ\text{C}/\text{W}$ |
| 0.5M/S | 4.59 $^\circ\text{C}/\text{W}$ | 3.79 $^\circ\text{C}/\text{W}$ |
| 1M/S | 3.42 $^\circ\text{C}/\text{W}$ | 2.83 $^\circ\text{C}/\text{W}$ |
| 1.5M/S | 2.49 $^\circ\text{C}/\text{W}$ | 2.06 $^\circ\text{C}/\text{W}$ |
| 2M/S | 2.06 $^\circ\text{C}/\text{W}$ | 1.70 $^\circ\text{C}/\text{W}$ |

DC/DC CG 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 12 | 9-18 | 05&05 | 3&3 | 50&50 | 82% | CG30-12D05&05 |
| 12 | 9-18 | 05&12 | 2&1.67 | 50&120 | 82% | CG30-12D05&12 |
| 12 | 9-18 | 05&24 | 1&1 | 50&200 | 83% | CG30-12D05&24 |
| 12 | 9-18 | 12&12 | 1.25&1.25 | 120&120 | 82% | CG30-12D12&12 |
| 12 | 9-18 | 15&15 | 1&1 | 150&150 | 82% | CG30-12D15&15 |
| 12 | 9-18 | 05&05 | 5&5 | 50&50 | 82% | CG50-12D05&05 |
| 12 | 9-18 | 05&12 | 3&2.92 | 50&120 | 82% | CG50-12D05&12 |
| 12 | 9-18 | 05&24 | 2&1.67 | 50&200 | 82% | CG50-12D05&24 |
| 12 | 9-18 | 12&12 | 2&2 | 120&120 | 82% | CG50-12D12&12 |
| 12 | 9-18 | 12&24 | 1.25&1.46 | 120&200 | 83% | CG50-12D12&24 |
| 12 | 9-18 | 15&15 | 1.67&1.67 | 150&150 | 83% | CG50-12D15&15 |
| 12 | 9-18 | 24&24 | 1&1 | 200&200 | 83% | CG50-12D24&24 |
| 12 | 9-18 | 48&48 | 0.5&0.5 | 300&300 | 83% | CG50-12D48&48 |
| 12 | 9-18 | 05&05 | 6&6 | 50&50 | 82% | CG60-12D05&05 |
| 12 | 9-18 | 05&12 | 4&3.33 | 50&120 | 82% | CG60-12D05&12 |
| 12 | 9-18 | 12&12 | 2.5&2.5 | 120&120 | 82% | CG60-12D12&12 |
| 12 | 9-18 | 12&24 | 1.67&1.67 | 120&200 | 83% | CG60-12D12&24 |
| 12 | 9-18 | 24&24 | 1.25&1.25 | 200&200 | 83% | CG60-12D24&24 |
| 24 | 18-36 | 05&05 | 3&3 | 50&50 | 82% | CG30-24D05&05 |
| 24 | 18-36 | 05&12 | 2&1.67 | 50&120 | 82% | CG30-24D05&12 |
| 24 | 18-36 | 05&24 | 1&1 | 50&200 | 83% | CG30-24D05&24 |
| 24 | 18-36 | 12&12 | 1.25&1.25 | 120&120 | 82% | CG30-24D12&12 |
| 24 | 18-36 | 15&15 | 1&1 | 150&150 | 82% | CG30-24D15&15 |
| 24 | 18-36 | 05&05 | 5&5 | 50&50 | 82% | CG50-24D05&05 |
| 24 | 18-36 | 05&12 | 3&2.92 | 50&120 | 82% | CG50-24D05&12 |
| 24 | 18-36 | 05&24 | 2&1.67 | 50&200 | 82% | CG50-24D05&24 |
| 24 | 18-36 | 12&12 | 2&2 | 120&120 | 82% | CG50-24D12&12 |
| 24 | 18-36 | 12&24 | 1.25&1.46 | 120&200 | 83% | CG50-24D12&24 |
| 24 | 18-36 | 15&15 | 1.67&1.67 | 150&150 | 83% | CG50-24D15&15 |
| 24 | 18-36 | 24&24 | 1&1 | 200&200 | 83% | CG50-24D24&24 |
| 24 | 18-36 | 28&28 | 0.9&0.9 | 300&300 | 83% | CG50-24D28&28 |
| 24 | 18-36 | 48&48 | 0.5&0.5 | 300&300 | 83% | CG50-24D48&48 |
| 24 | 18-36 | 05&24 | 2&2 | 50&200 | 82% | CG60-24D05&24 |
| 24 | 18-36 | 12&12 | 2.5&2.5 | 120&120 | 82% | CG60-24D12&12 |
| 24 | 18-36 | 12&24 | 1.67&1.67 | 120&200 | 83% | CG60-24D12&24 |
| 24 | 18-36 | 24&24 | 1.25&1.25 | 200&200 | 83% | CG60-24D24&24 |
| 48 | 36-72 | 05&05 | 3&3 | 50&50 | 82% | CG30-48D05&05 |
| 48 | 36-72 | 05&12 | 2&1.67 | 50&120 | 82% | CG30-48D05&12 |
| 48 | 36-72 | 05&24 | 1&1 | 120&200 | 83% | CG30-48D05&24 |
| 48 | 36-72 | 12&12 | 1.25&1.25 | 120&120 | 82% | CG30-48D12&12 |
| 48 | 36-72 | 15&15 | 1&1 | 150&150 | 82% | CG30-48D15&15 |
| 48 | 36-72 | 05&05 | 5&5 | 50&50 | 82% | CG50-48D05&05 |
| 48 | 36-72 | 05&12 | 3&2.92 | 50&120 | 82% | CG50-48D05&12 |
| 48 | 36-72 | 05&24 | 2&1.67 | 50&200 | 82% | CG50-48D05&24 |
| 48 | 36-72 | 12&12 | 2&2 | 120&120 | 82% | CG50-48D12&12 |
| 48 | 36-72 | 12&24 | 1.25&1.46 | 120&200 | 83% | CG50-48D12&24 |
| 48 | 36-72 | 15&15 | 1.67&1.67 | 150&150 | 83% | CG50-48D15&15 |
| 48 | 36-72 | 24&24 | 1&1 | 200&200 | 83% | CG50-48D24&24 |
| 48 | 36-72 | 48&48 | 0.5&0.5 | 300&300 | 83% | CG50-48D48&48 |
| 48 | 36-72 | 05&12 | 4&3.33 | 50&120 | 82% | CG60-48D05&12 |
| 48 | 36-72 | 05&24 | 2&2 | 50&200 | 82% | CG60-48D05&24 |
| 48 | 36-72 | 12&12 | 2.5&2.5 | 120&120 | 82% | CG60-48D12&12 |
| 48 | 36-72 | 12&24 | 1.67&1.67 | 120&200 | 83% | CG60-48D12&24 |
| 48 | 36-72 | 24&24 | 1.25&1.25 | 200&200 | 83% | CG60-48D24&24 |

双
路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CE,CEH 系列

引出脚功能兼容，输入可 9-36V
(四倍电压输入)，安装方便

50-75W



特性

Features

- 输入 π 型滤波 π type input filter
- 可高压输入 High voltage input
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 高功率密度 High power density
- 输入电压范围宽 Wide range of input voltage

输入特性

Input Characteristics

| | | |
|--------------------------|----------------------------|-----------|
| 电压范围: (Voltage Range) | DC-DC 12VDC(Normal) | 9-18VDC |
| | 18VDC(Normal) | 9-36VDC |
| | 24VDC(Normal) | 18-36VDC |
| | 48VDC(Normal) | 36-72VDC |
| | 110VDC(Normal) | 66-160VDC |

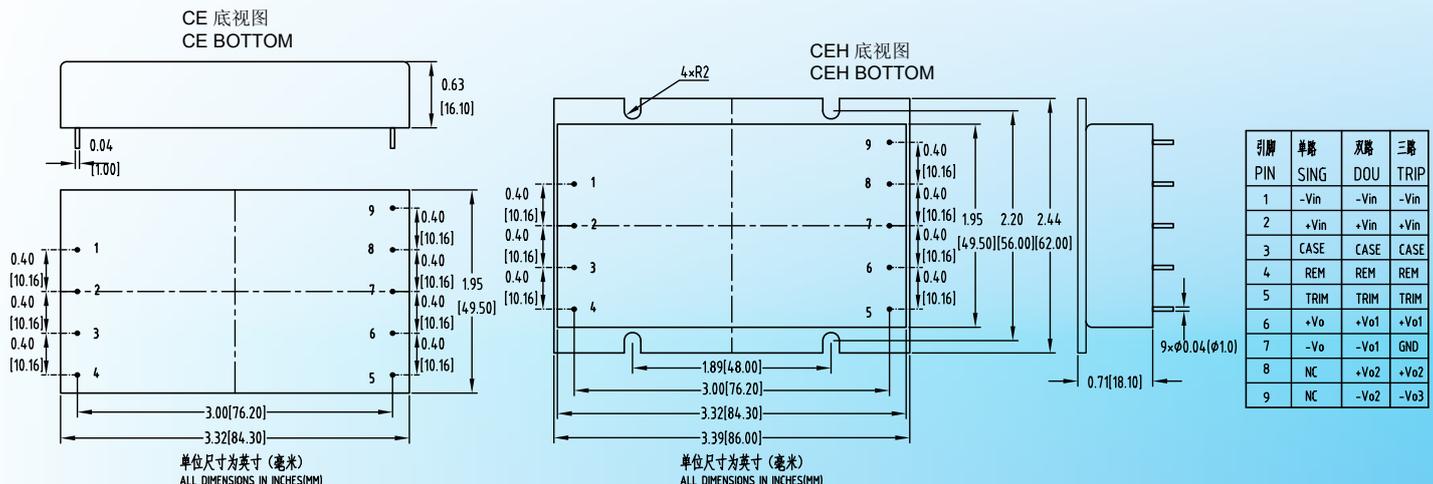
输出特性

Output Characteristics

| | |
|---|-------------------------------|
| 稳压精度: (Regulated Voltage Accuracy) | $\pm 1\%$ |
| 输出电压调节范围: (Line Regulation) | $\pm 10\%$ |
| 电压调整率 (主路): (Line Regulation) | $\pm 0.2\%$ |
| 负载调整率 (主路): (Load Regulation) | $\pm 0.5\%$ |
| 温度变化率: (Temperature Coefficient) | $\pm 0.02\% / ^\circ\text{C}$ |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | $\pm 3\%$ |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



物理特性

结构尺寸: 84.3*49.5*16.1mm(CE)
86*62*18.1mm(CEH)
重量: CE:0.15Kg CEH:0.14Kg

一般特性

General Characteristics

| | |
|--------------------------------------|---------------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)M Ω |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|---------------------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ\text{C}$ |
| | 军 I (Military I) | -40~+85 $^\circ\text{C}$ |
| | 军 II (Military II) | -55~+85 $^\circ\text{C}$ |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ\text{C}$ |
| | 军品 (Military) | -55~+105 $^\circ\text{C}$ |

热阻特性

Thermal Characteristics

| | | |
|-----------------------------|--|--------------------------------|
| 冷却方式: (Cooling) | 热阻 (CE) 热阻 (CEH) (Thermal Resistance) | |
| 自然风冷: (Breeze of Nature) | 4.17 $^\circ\text{C}/\text{W}$ | 5.82 $^\circ\text{C}/\text{W}$ |
| 0.5M/S | 3.48 $^\circ\text{C}/\text{W}$ | 5.26 $^\circ\text{C}/\text{W}$ |
| 1M/S | 2.59 $^\circ\text{C}/\text{W}$ | 3.27 $^\circ\text{C}/\text{W}$ |
| 1.5M/S | 1.89 $^\circ\text{C}/\text{W}$ | 2.38 $^\circ\text{C}/\text{W}$ |
| 2M/S | 1.56 $^\circ\text{C}/\text{W}$ | 1.97 $^\circ\text{C}/\text{W}$ |

DC/DC CE,CEH 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------------|
| 单路 | 12 | 9-18 | 5 | 10 | 50 | 82% | CE (H) 50-12S05 |
| | 12 | 9-18 | 12 | 4.17 | 120 | 82% | CE (H) 50-12S12 |
| | 12 | 9-18 | 24 | 2.08 | 200 | 83% | CE (H) 50-12S24 |
| | 12 | 9-18 | 48 | 1.04 | 300 | 84% | CE (H) 50-12S48 |
| | 12 | 9-18 | 5 | 12 | 50 | 82% | CE (H) 60-12S05 |
| | 12 | 9-18 | 12 | 5 | 120 | 82% | CE (H) 60-12S12 |
| | 12 | 9-18 | 24 | 2.5 | 200 | 83% | CE (H) 60-12S24 |
| | 12 | 9-18 | 36 | 1.67 | 300 | 84% | CE (H) 60-12S36 |
| | 12 | 9-18 | 48 | 1.25 | 300 | 84% | CE (H) 60-12S48 |
| | 18 | 9-36 | 12 | 6.25 | 120 | 82% | CE (H) 75-18S12 |
| | 18 | 9-36 | 24 | 3.13 | 200 | 83% | CE (H) 75-18S24 |
| | 18 | 9-36 | 48 | 1.56 | 300 | 84% | CE (H) 75-18S48 |
| | 24 | 18-36 | 5 | 10 | 50 | 82% | CE (H) 50-24S05 |
| | 24 | 18-36 | 12 | 4.17 | 120 | 82% | CE (H) 50-24S12 |
| | 24 | 18-36 | 24 | 2.08 | 200 | 83% | CE (H) 50-24S24 |
| | 24 | 18-36 | 48 | 1.04 | 300 | 84% | CE (H) 50-24S48 |
| | 24 | 18-36 | 5 | 12 | 50 | 82% | CE (H) 60-24S05 |
| | 24 | 18-36 | 12 | 5 | 120 | 82% | CE (H) 60-24S12 |
| | 24 | 18-36 | 24 | 2.5 | 200 | 83% | CE (H) 60-24S24 |
| | 24 | 18-36 | 36 | 1.67 | 300 | 84% | CE (H) 60-24S36 |
| | 24 | 18-36 | 48 | 1.25 | 300 | 84% | CE (H) 60-24S48 |
| | 24 | 18-36 | 12 | 6.25 | 120 | 82% | CE (H) 75-24S12 |
| | 24 | 18-36 | 24 | 3.13 | 200 | 83% | CE (H) 75-24S24 |
| | 24 | 18-36 | 48 | 1.56 | 300 | 84% | CE (H) 75-24S48 |
| | 48 | 36-72 | 5 | 10 | 50 | 82% | CE (H) 50-48S05 |
| | 48 | 36-72 | 12 | 4.17 | 120 | 82% | CE (H) 50-48S12 |
| | 48 | 36-72 | 24 | 2.08 | 200 | 83% | CE (H) 50-48S24 |
| | 48 | 36-72 | 48 | 1.04 | 300 | 84% | CE (H) 50-48S48 |
| | 48 | 36-72 | 12 | 5 | 120 | 82% | CE (H) 60-48S12 |
| | 48 | 36-72 | 24 | 2.5 | 200 | 83% | CE (H) 60-48S24 |
| | 48 | 36-72 | 36 | 1.67 | 300 | 84% | CE (H) 60-48S36 |
| | 48 | 36-72 | 48 | 1.25 | 300 | 84% | CE (H) 60-48S48 |
| 48 | 36-72 | 12 | 6.25 | 120 | 82% | CE (H) 75-48S12 | |
| 48 | 36-72 | 24 | 3.13 | 200 | 83% | CE (H) 75-48S24 | |
| 48 | 36-72 | 48 | 1.56 | 300 | 83% | CE (H) 75-48S48 | |
| 110 | 66-160 | 12 | 5 | 120 | 82% | CE (H) 60-110S12 | |
| 110 | 66-160 | 15 | 4 | 150 | 83% | CE (H) 60-110S15 | |
| 110 | 66-160 | 12 | 6 | 120 | 82% | CE (H) 75-110S12 | |
| 110 | 66-160 | 24 | 3.13 | 200 | 83% | CE (H) 75-110S24 | |
| 双路 | 12 | 9-18 | 12&12 | 2.08&2.08 | 120&120 | 82% | CE (H) 50-12D12&12 |
| | 12 | 9-18 | 15&15 | 2&2 | 150&150 | 83% | CE (H) 60-12D15&15 |
| | 24 | 18-36 | 12&12 | 3.13&3.13 | 120&120 | 82% | CE (H) 75-24D12&12 |
| | 24 | 18-36 | 15&15 | 2.5&2.5 | 150&150 | 83% | CE (H) 75-24D15&15 |
| | 48 | 36-72 | 12&12 | 2.5&2.5 | 120&120 | 82% | CE (H) 60-48D12&12 |
| | 48 | 36-72 | 24&24 | 1.56&1.56 | 200&200 | 83% | CE (H) 75-48D24&24 |
| | 110 | 66-160 | 12&12 | 2.5&2.5 | 120&120 | 83% | CE (H) 60-110D12&12 |
| | 110 | 66-160 | 12&12 | 3.13&3.13 | 120&120 | 83% | CE (H) 75-110D12&12 |
| 三路 | 12 | 9-18 | ±05, +12 | 2/2/2.5 | 50/50/120 | 82% | CE (H) 50-12T05+12 |
| | 24 | 18-36 | ±12, +05 | 2.08/2.08/2 | 120/120/50 | 82% | CE (H) 60-24T12+05 |
| | 24 | 18-36 | ±15, +05 | 1.67/1.67/2 | 150/150/50 | 83% | CE (H) 60-24T15+05 |
| | 48 | 36-72 | ±05, +15 | 2.5/2.5/3.33 | 50/50/150 | 82% | CE (H) 75-48T05+15 |
| 48 | 36-72 | ±15, +05 | 1.67/1.67/2.5 | 150/150/50 | 83% | CE (H) 75-48T15+05 | |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CF 系列

引出脚功能兼容，宽电压输入范围

50-125W



物理特性

结构尺寸: 87.6*61*16.1mm
重量: 0.13Kg

特性

Features

- 输入 π 型滤波 π type input filter
- 高功率密度 High power density
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 小体积，大功率输出 Small form factor,High output power
- 自然冷却可附带散热器 Natural cooling,heat sink attachable

输入特性

Input Characteristics

| | | |
|--------------------------|---|-----------------------|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) | 9-18V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |
| | 110V _{DC} (Normal) | 66-160V _{DC} |

输出特性

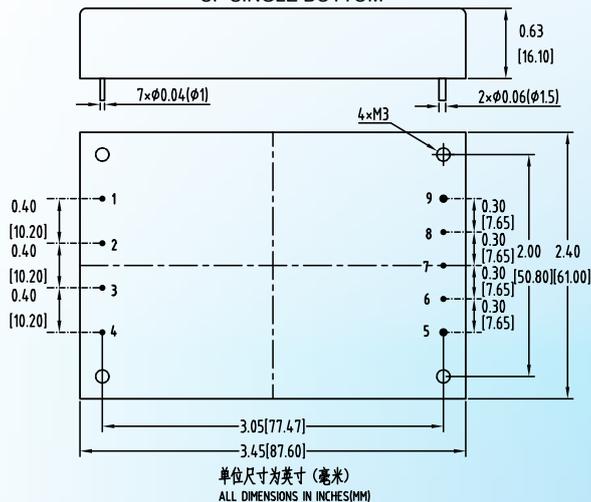
Output Characteristics

| | |
|---------------------------------------|-------------------------------|
| 稳压精度: (Regulated Voltage Accuracy) | $\pm 1\%$ |
| 输出电压调节范围: (Line Regulation) | $\pm 10\%$ |
| 电压调整率: (Line Regulation) | $\pm 0.2\%$ |
| 负载调整率: (Load Regulation) | $\pm 0.5\%$ |
| 温度变化率: (Temperature Coefficient) | $\pm 0.02\% / ^\circ\text{C}$ |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

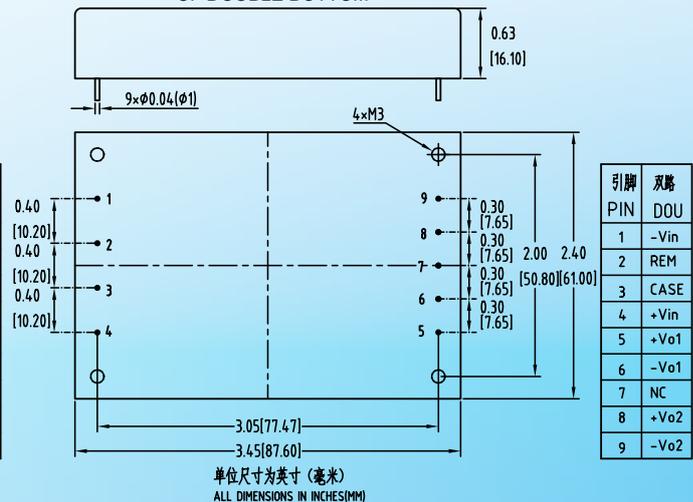
尺寸图

Dimensioned Drawing

CF (单路) 底视图
CF SINGLE BOTTOM



CF (双路) 底视图
CF DOUBLE BOTTOM



一般特性

General Characteristics

| | |
|--------------------------------------|---------------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)M Ω |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|---------------------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ\text{C}$ |
| | 军 I (Military I) | -40~+85 $^\circ\text{C}$ |
| | 军 II (Military II) | -55~+85 $^\circ\text{C}$ |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ\text{C}$ |
| | 军品 (Military) | -55~+105 $^\circ\text{C}$ |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 3.85 $^\circ\text{C} / \text{W}$ |
| 0.5M/S | 2.87 $^\circ\text{C} / \text{W}$ |
| 1M/S | 2.09 $^\circ\text{C} / \text{W}$ |
| 1.5M/S | 1.73 $^\circ\text{C} / \text{W}$ |
| 2M/S | 1.52 $^\circ\text{C} / \text{W}$ |

DC/DC CF 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 12 | 9-18 | 5 | 10 | 50 | 82% | CF50-12S05 |
| 12 | 9-18 | 12 | 4.17 | 120 | 82% | CF50-12S12 |
| 12 | 9-18 | 24 | 2.08 | 200 | 83% | CF50-12S24 |
| 12 | 9-18 | 12 | 6.25 | 120 | 83% | CF75-12S12 |
| 12 | 9-18 | 24 | 3.13 | 200 | 83% | CF75-12S24 |
| 12 | 9-18 | 12 | 8.33 | 120 | 83% | CF100-12S12 |
| 12 | 9-18 | 24 | 4.17 | 200 | 82% | CF100-12S24 |
| 12 | 9-18 | 12 | 10.42 | 120 | 83% | CF125-12S12 |
| 12 | 9-18 | 24 | 5.21 | 200 | 83% | CF125-12S24 |
| 12 | 9-18 | 48 | 2.6 | 300 | 83% | CF125-12S48 |
| 24 | 18-36 | 5 | 10 | 50 | 82% | CF50-24S05 |
| 24 | 18-36 | 12 | 4.17 | 120 | 82% | CF50-24S12 |
| 24 | 18-36 | 24 | 2.08 | 200 | 83% | CF50-24S24 |
| 24 | 18-36 | 48 | 1.04 | 300 | 84% | CF50-24S48 |
| 24 | 18-36 | 12 | 6.25 | 120 | 83% | CF75-24S12 |
| 24 | 18-36 | 24 | 3.13 | 200 | 83% | CF75-24S24 |
| 24 | 18-36 | 48 | 1.56 | 300 | 83% | CF75-24S48 |
| 24 | 18-36 | 12 | 8.33 | 120 | 83% | CF100-24S12 |
| 24 | 18-36 | 24 | 4.17 | 200 | 82% | CF100-24S24 |
| 24 | 18-36 | 48 | 2.08 | 300 | 82% | CF100-24S48 |
| 24 | 18-36 | 12 | 10.42 | 120 | 83% | CF125-24S12 |
| 24 | 18-36 | 24 | 5.21 | 200 | 83% | CF125-24S24 |
| 24 | 18-36 | 48 | 2.6 | 300 | 83% | CF125-24S48 |
| 48 | 36-72 | 5 | 10 | 50 | 82% | CF50-48S05 |
| 48 | 36-72 | 12 | 4.17 | 120 | 82% | CF50-48S12 |
| 48 | 36-72 | 24 | 2.08 | 200 | 83% | CF50-48S24 |
| 48 | 36-72 | 48 | 1.04 | 300 | 84% | CF50-48S48 |
| 48 | 36-72 | 12 | 6.25 | 120 | 83% | CF75-48S12 |
| 48 | 36-72 | 24 | 3.13 | 200 | 83% | CF75-48S24 |
| 48 | 36-72 | 48 | 1.56 | 300 | 83% | CF75-48S48 |
| 48 | 36-72 | 12 | 8.33 | 120 | 83% | CF100-48S12 |
| 48 | 36-72 | 24 | 4.17 | 200 | 82% | CF100-48S24 |
| 48 | 36-72 | 48 | 2.08 | 300 | 82% | CF100-48S48 |
| 48 | 36-72 | 12 | 10.42 | 120 | 83% | CF125-48S12 |
| 48 | 36-72 | 24 | 5.21 | 200 | 83% | CF125-48S24 |
| 48 | 36-72 | 48 | 2.6 | 300 | 83% | CF125-48S48 |
| 110 | 66-160 | 12 | 4.17 | 120 | 82% | CF50-110S12 |
| 110 | 66-160 | 24 | 2.08 | 200 | 83% | CF50-110S24 |
| 110 | 66-160 | 48 | 1.04 | 300 | 84% | CF50-110S48 |
| 110 | 66-160 | 12 | 6.25 | 120 | 83% | CF75-110S12 |
| 110 | 66-160 | 24 | 3.13 | 200 | 83% | CF75-110S24 |
| 110 | 66-160 | 48 | 1.56 | 300 | 83% | CF75-110S48 |
| 110 | 66-160 | 12 | 8.33 | 120 | 83% | CF100-110S12 |
| 110 | 66-160 | 24 | 4.17 | 200 | 82% | CF100-110S24 |
| 110 | 66-160 | 48 | 2.08 | 300 | 82% | CF100-110S48 |
| 12 | 9-18 | 12&12 | 2&2 | 120&120 | 83% | CF50-12D12&12 |
| 12 | 9-18 | 12&12 | 3.13& 3.13 | 120&120 | 83% | CF75-12D12&12 |
| 24 | 18-36 | 05&12 | 4&2.5 | 50&120 | 83% | CF50-24D05&12 |
| 24 | 18-36 | 12&12 | 2&2 | 120&120 | 83% | CF50-24D12&12 |
| 24 | 18-36 | 05&12 | 5&4.17 | 50&120 | 82% | CF75-24D05&12 |
| 24 | 18-36 | 12&12 | 3.13& 3.13 | 120&120 | 82% | CF75-24D12&12 |
| 48 | 36-72 | 12&12 | 2&2 | 120&120 | 82% | CF50-48D12&12 |
| 48 | 36-72 | 12&12 | 3.13& 3.13 | 120&120 | 82% | CF75-48D12&12 |

单

路

双

路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CKN 系列

引出脚功能兼容，宽电压输入范围
可 2 倍、4 倍、10 倍

75-200W



特性

Features

- 输入 π 型滤波 π type input filter
- 2 倍, 4 倍, 10 倍电压输入 2X,4X,10X voltage input
- 高功率密度 High power density
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广, 便于升级 Wide range of power, easy to upgrade
- 自然冷却可附带散热器 Natural cooling, heat sink attachable

输入特性

Input Characteristics

| | | |
|--------------------------|---|-----------------------|
| 电压范围: (Voltage Range) | DC-DC 12V _{DC} (Normal) | 9-18V _{DC} |
| | 24V _{DC} (Normal) | 18-36V _{DC} |
| | 48V _{DC} (Normal) | 36-72V _{DC} |
| | 72V _{DC} (Normal) | 16-160V _{DC} |
| | 110V _{DC} (Normal) | 66-160V _{DC} |

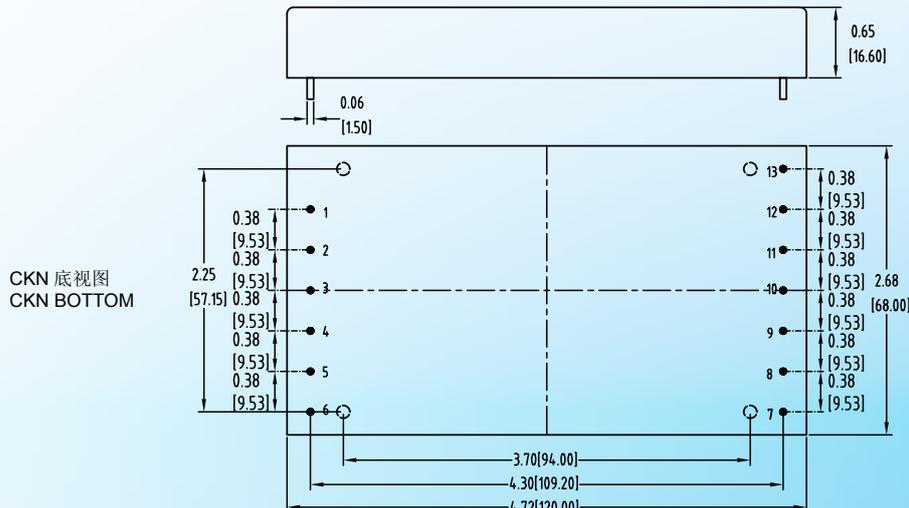
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μ s |

尺寸图

Dimensioned Drawing



单位尺寸为英寸(毫米)
ALL DIMENSIONS IN INCHES(MM)

| 引脚 PIN | 单路 SING |
|-----------|------------|
| 1 | -Vin |
| 2 | -Vin |
| 3 | +Vin |
| 4 | +Vin |
| 5 | REM |
| 6 | CASE |
| 7 | +SENSE |
| 8 | TRIM |
| 9 | -SENSE |
| 10 | +Vo |
| 11 | +Vo |
| 12 | -Vo |
| 13 | -Vo |

物理特性

结构尺寸: 120*68*16.6mm
重量: 0.2Kg

一般特性

General Characteristics

| | |
|-------------------------------------|---------------------|
| 工作频率(典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)M Ω |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| 存储温度: (Storage Temperature) | 军 II (Military II) | -55~+85°C |
| | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 2.79°C /W |
| 0.5M/S | 2.33°C /W |
| 1M/S | 1.73°C /W |
| 1.5M/S | 1.26°C /W |
| 2M/S | 1.04°C /W |

DC/DC CKN 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 12 | 9-18 | 5 | 15 | 50 | 82% | CKN75-12S05 |
| 12 | 9-18 | 12 | 6.25 | 120 | 82% | CKN75-12S12 |
| 12 | 9-18 | 24 | 3.13 | 200 | 83% | CKN75-12S24 |
| 12 | 9-18 | 36 | 2.08 | 300 | 84% | CKN75-12S36 |
| 12 | 9-18 | 48 | 1.56 | 300 | 84% | CKN75-12S48 |
| 12 | 9-18 | 12 | 8.33 | 120 | 82% | CKN100-12S12 |
| 12 | 9-18 | 24 | 4.17 | 200 | 83% | CKN100-12S24 |
| 12 | 9-18 | 48 | 2.08 | 300 | 84% | CKN100-12S48 |
| 12 | 9-18 | 12 | 10 | 120 | 82% | CKN120-12S12 |
| 12 | 9-18 | 24 | 5 | 200 | 83% | CKN120-12S24 |
| 12 | 9-18 | 48 | 2.5 | 300 | 84% | CKN120-12S48 |
| 12 | 9-18 | 12 | 12.5 | 120 | 82% | CKN150-12S12 |
| 12 | 9-18 | 24 | 6.25 | 200 | 83% | CKN150-12S24 |
| 12 | 9-18 | 48 | 3.13 | 300 | 84% | CKN150-12S48 |
| 24 | 18-36 | 5 | 15 | 50 | 82% | CKN75-24S05 |
| 24 | 18-36 | 12 | 6.25 | 120 | 82% | CKN75-24S12 |
| 24 | 18-36 | 24 | 3.13 | 200 | 83% | CKN75-24S24 |
| 24 | 18-36 | 48 | 1.56 | 300 | 84% | CKN75-24S48 |
| 24 | 18-36 | 12 | 8.33 | 120 | 82% | CKN100-24S12 |
| 24 | 18-36 | 24 | 4.17 | 200 | 83% | CKN100-24S24 |
| 24 | 18-36 | 48 | 2.08 | 300 | 84% | CKN100-24S48 |
| 24 | 18-36 | 12 | 10 | 120 | 82% | CKN120-24S12 |
| 24 | 18-36 | 24 | 5 | 200 | 83% | CKN120-24S24 |
| 24 | 18-36 | 48 | 2.5 | 300 | 84% | CKN120-24S48 |
| 24 | 18-36 | 12 | 12.5 | 120 | 82% | CKN150-24S12 |
| 24 | 18-36 | 24 | 6.25 | 200 | 83% | CKN150-24S24 |
| 24 | 18-36 | 48 | 3.13 | 300 | 84% | CKN150-24S48 |
| 48 | 36-72 | 5 | 15 | 50 | 82% | CKN75-48S05 |
| 48 | 36-72 | 12 | 6.25 | 120 | 82% | CKN75-48S12 |
| 48 | 36-72 | 24 | 3.13 | 200 | 83% | CKN75-48S24 |
| 48 | 36-72 | 48 | 1.56 | 300 | 84% | CKN75-48S48 |
| 48 | 36-72 | 12 | 8.33 | 120 | 82% | CKN100-48S12 |
| 48 | 36-72 | 24 | 4.17 | 200 | 83% | CKN100-48S24 |
| 48 | 36-72 | 48 | 2.08 | 300 | 84% | CKN100-48S48 |
| 48 | 36-72 | 12 | 10 | 120 | 82% | CKN120-48S12 |
| 48 | 36-72 | 24 | 5 | 200 | 83% | CKN120-48S24 |
| 48 | 36-72 | 48 | 2.5 | 300 | 84% | CKN120-48S48 |
| 48 | 36-72 | 12 | 12.5 | 120 | 82% | CKN150-48S12 |
| 48 | 36-72 | 24 | 6.25 | 200 | 83% | CKN150-48S24 |
| 48 | 36-72 | 48 | 3.13 | 300 | 84% | CKN150-48S48 |
| 72 | 16-160 | 5 | 15 | 50 | 82% | CKN75-72S05 |
| 72 | 16-160 | 12 | 6.25 | 120 | 82% | CKN75-72S12 |
| 72 | 16-160 | 24 | 3.13 | 200 | 83% | CKN75-72S24 |
| 72 | 16-160 | 48 | 1.56 | 300 | 84% | CKN75-72S48 |
| 72 | 16-160 | 12 | 8.33 | 120 | 82% | CKN100-72S12 |
| 72 | 16-160 | 24 | 4.17 | 200 | 83% | CKN100-72S24 |
| 72 | 16-160 | 48 | 2.08 | 300 | 84% | CKN100-72S48 |
| 110 | 66-160 | 12 | 10 | 120 | 82% | CKN120-110S12 |
| 110 | 66-160 | 24 | 5 | 200 | 83% | CKN120-110S24 |
| 110 | 66-160 | 48 | 2.5 | 300 | 84% | CKN120-110S48 |
| 110 | 66-160 | 12 | 12.5 | 120 | 82% | CKN150-110S12 |
| 110 | 66-160 | 24 | 6.25 | 200 | 83% | CKN150-110S24 |
| 110 | 66-160 | 48 | 3.13 | 300 | 84% | CKN150-110S48 |

单

路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CW 系列

双路独立稳压，小体积，
大功率输出

100-150W



物理特性

结构尺寸: 127*88.9*17.3mm
重量: 0.34Kg

特性

Features

- 输入 π 型滤波 π type input filter
- 高功率密度 High power density
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 小体积，大功率输出 Small form factor,High output power
- 自然冷却可附带散热器 Natural cooling,heat sink attachable

输入特性

Input Characteristics

电压范围: **DC-DC** 24Vdc(Normal) 18-36Vdc
(Voltage Range)
48Vdc(Normal) 36-72Vdc

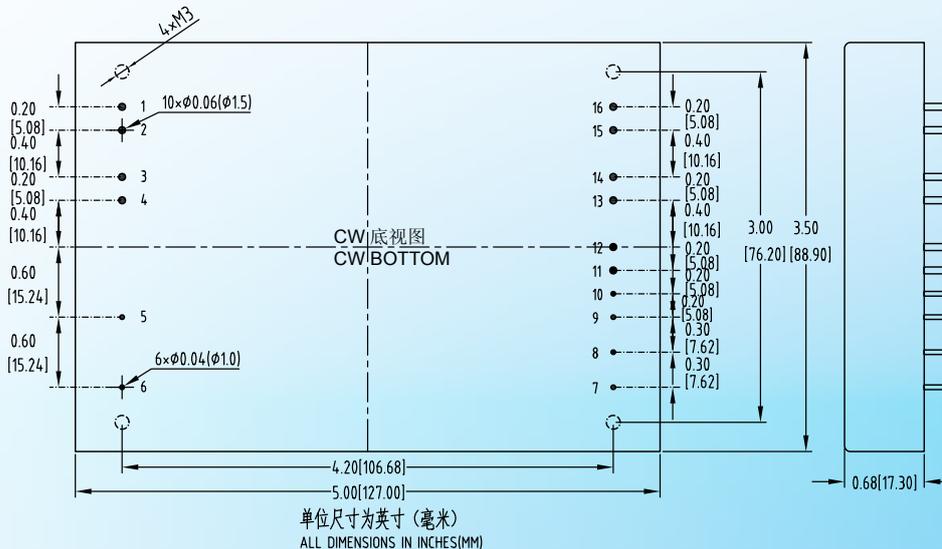
输出特性

Output Characteristics

稳压精度: (Regulated Voltage Accuracy) $\pm 1\%$
输出电压调节范围: (Line Regulation) $\pm 10\%$
电压调整率 (主路): (Line Regulation) $\pm 0.2\%$
负载调整率 (主路): (Load Regulation) $\pm 0.5\%$
温度变化率: (Temperature Coefficient) $\pm 0.02\% / ^\circ\text{C}$
电流限制点: (Output Current Limiting) 120% (Typ)
瞬态响应: (Transient Response) 400 μs

尺寸图

Dimensioned Drawing



一般特性

General Characteristics

工作频率 (典型值): (Switching Frequency) 200 KHz
隔离电阻: (Isolation Resistance) 200 (Typ)M Ω
MTBF: >500000 hrs

绝缘强度 (Insulation Voltage)

输入 - 输出: (Input-Output) > 1500 V_{DC}
输入 - 外壳: (Input-Case) > 1050 V_{DC}
输出 - 外壳: (Output-Case) > 500 V_{DC}

环境特性 (Environmental Characteristics)

工作壳温: (Operation Temperature) 工业品 (Industry) -25~+85 $^\circ\text{C}$
军 I (Military I) -40~+85 $^\circ\text{C}$
军 II (Military II) -55~+85 $^\circ\text{C}$
存储温度: (Storage Temperature) 工业品 (Industry) -45~+105 $^\circ\text{C}$
军品 (Military) -55~+105 $^\circ\text{C}$

热阻特性

Thermal Characteristics

冷却方式: (Cooling) 自然风冷: (Breeze of Nature)
热阻: (Thermal Resistance) 2.50 $^\circ\text{C}/\text{W}$
0.5M/S 2.08 $^\circ\text{C}/\text{W}$
1M/S 1.56 $^\circ\text{C}/\text{W}$
1.5M/S 1.13 $^\circ\text{C}/\text{W}$
2M/S 0.94 $^\circ\text{C}/\text{W}$

| 引脚 PIN | 单路 SING | 双路 DOU |
|--------|---------|--------|
| 1 | +Vin | +Vin |
| 2 | +Vin | +Vin |
| 3 | -Vin | -Vin |
| 4 | -Vin | -Vin |
| 5 | CASE | CASE |
| 6 | REM | REM |
| 7 | -SENSE | -SENSE |
| 8 | TRIM | TRIM |
| 9 | +SENSE | +SENSE |
| 10 | NC | NC |
| 11 | NC | +Vo2 |
| 12 | NC | +Vo2 |
| 13 | -Vo | GND |
| 14 | -Vo | GND |
| 15 | +Vo | +Vo1 |
| 16 | +Vo | +Vo1 |

DC/DC CW 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 24 | 18-36 | 12 | 8.33 | 120 | 82% | CW100-24S12 |
| 24 | 18-36 | 15 | 6.67 | 150 | 82% | CW100-24S15 |
| 24 | 18-36 | 24 | 4.17 | 200 | 83% | CW100-24S24 |
| 24 | 18-36 | 36 | 2.78 | 300 | 84% | CW100-24S36 |
| 24 | 18-36 | 48 | 2.08 | 300 | 84% | CW100-24S48 |
| 24 | 18-36 | 12 | 10 | 120 | 82% | CW120-24S12 |
| 24 | 18-36 | 15 | 8 | 150 | 82% | CW120-24S15 |
| 24 | 18-36 | 24 | 5 | 200 | 83% | CW120-24S24 |
| 24 | 18-36 | 36 | 3.3 | 300 | 84% | CW120-24S36 |
| 24 | 18-36 | 48 | 2.5 | 300 | 84% | CW120-24S48 |
| 24 | 18-36 | 12 | 12.5 | 120 | 82% | CW150-24S12 |
| 24 | 18-36 | 15 | 10 | 150 | 83% | CW150-24S15 |
| 24 | 18-36 | 24 | 6.25 | 200 | 83% | CW150-24S24 |
| 24 | 18-36 | 48 | 3.13 | 300 | 84% | CW150-24S48 |
| 48 | 36-72 | 12 | 8.33 | 120 | 82% | CW100-48S12 |
| 48 | 36-72 | 15 | 6.67 | 150 | 82% | CW100-48S15 |
| 48 | 36-72 | 24 | 4.17 | 200 | 83% | CW100-48S24 |
| 48 | 36-72 | 36 | 2.78 | 300 | 84% | CW100-48S36 |
| 48 | 36-72 | 48 | 2.08 | 300 | 84% | CW100-48S48 |
| 48 | 36-72 | 12 | 10 | 120 | 82% | CW120-48S12 |
| 48 | 36-72 | 15 | 8 | 150 | 82% | CW120-48S15 |
| 48 | 36-72 | 24 | 5 | 200 | 83% | CW120-48S24 |
| 48 | 36-72 | 48 | 2.5 | 300 | 84% | CW120-48S48 |
| 48 | 36-72 | 12 | 12.5 | 120 | 82% | CW150-48S12 |
| 48 | 36-72 | 15 | 10 | 150 | 83% | CW150-48S15 |
| 48 | 36-72 | 24 | 6.25 | 200 | 83% | CW150-48S24 |
| 48 | 36-72 | 48 | 3.13 | 300 | 84% | CW150-48S48 |
| 24 | 18-36 | 05+05 | 10/10 | 50/50 | 82% | CW100-24D05+05 |
| 24 | 18-36 | 05+12 | 6/5.83 | 50/120 | 82% | CW100-24D05+12 |
| 24 | 18-36 | 05+24 | 4/3.33 | 50/200 | 82% | CW100-24D05+24 |
| 24 | 18-36 | 12+12 | 4.17/4.17 | 120/120 | 82% | CW100-24D12+12 |
| 24 | 18-36 | 12+24 | 2.5/2.92 | 120/200 | 83% | CW100-24D12+24 |
| 24 | 18-36 | 24+24 | 2/2 | 200/200 | 83% | CW100-24D24+24 |
| 24 | 18-36 | 05+05 | 15/15 | 50/50 | 82% | CW150-24D05+05 |
| 24 | 18-36 | 05+12 | 10/8.33 | 50/120 | 82% | CW150-24D05+12 |
| 24 | 18-36 | 05+24 | 6/5 | 50/200 | 82% | CW150-24D05+24 |
| 24 | 18-36 | 12+12 | 6.25/6.25 | 120/120 | 82% | CW150-24D12+12 |
| 24 | 18-36 | 12+24 | 4.17/4.17 | 120/200 | 83% | CW150-24D12+24 |
| 24 | 18-36 | 24+24 | 3.13/3.13 | 200/200 | 83% | CW150-24D24+24 |
| 24 | 18-36 | 24+48 | 2/2 | 200/300 | 83% | CW150-24D24+48 |
| 48 | 36-72 | 05+05 | 10/10 | 50/50 | 82% | CW100-48D05+05 |
| 48 | 36-72 | 05+12 | 6/5.83 | 50/120 | 82% | CW100-48D05+12 |
| 48 | 36-72 | 05+24 | 4/3.33 | 50/200 | 82% | CW100-48D05+24 |
| 48 | 36-72 | 12+12 | 4.17/4.17 | 120/120 | 82% | CW100-48D12+12 |
| 48 | 36-72 | 12+24 | 2.5/2.92 | 120/200 | 83% | CW100-48D12+24 |
| 48 | 36-72 | 24+24 | 2/2 | 200/200 | 83% | CW100-48D24+24 |
| 48 | 36-72 | 05+05 | 15/15 | 50/50 | 82% | CW150-48D05+05 |
| 48 | 36-72 | 05+12 | 10/8.33 | 50/120 | 82% | CW150-48D05+12 |
| 48 | 36-72 | 05+24 | 6/5 | 50/200 | 82% | CW150-48D05+24 |
| 48 | 36-72 | 12+12 | 6.25/6.25 | 120/120 | 82% | CW150-48D12+12 |
| 48 | 36-72 | 12+24 | 4.17/4.17 | 120/200 | 83% | CW150-48D12+24 |
| 48 | 36-72 | 24+24 | 3.13/3.13 | 200/200 | 83% | CW150-48D24+24 |
| 48 | 36-72 | 24+48 | 2/2 | 200/300 | 83% | CW150-48D24+48 |

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CK,CKK 系列

150-500W

双路独立稳压，大电流、大功率输出



特性

Features

- 输入 π 型滤波 π type input filter
- 功率密度可达 $26W/in^3$ Up to $26W/in^3$ power density
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 高压输入，大功率输出 High voltage input,high output power
- 输入欠过压保护 Under-&over-voltage protection for input

输入特性

Input Characteristics

| | | | |
|--------------------------|--------------|-----------------------------|------------------------|
| 电压范围： (Voltage Range) | DC-DC | 12V _{DC} (Normal) | 9-18V _{DC} |
| | | 24V _{DC} (Normal) | 18-36V _{DC} |
| | | 48V _{DC} (Normal) | 36-72V _{DC} |
| | | 300V _{DC} (Normal) | 200-400V _{DC} |
| | | 600V _{DC} (Normal) | 400-800V _{DC} |

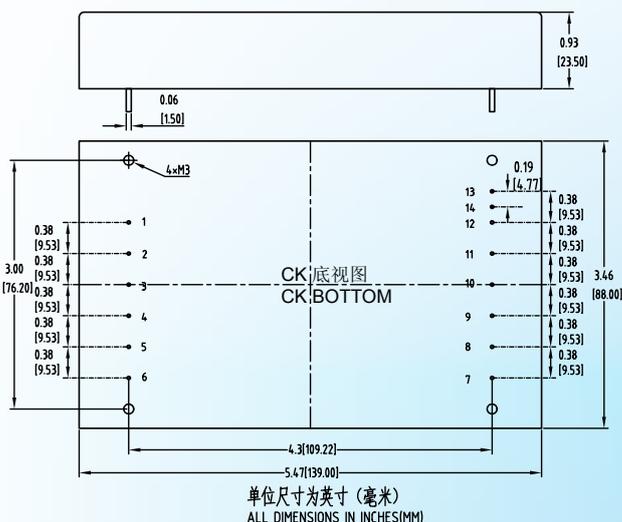
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------------------|
| 稳压精度： (Regulated Voltage Accuracy) | $\pm 1\%$ |
| 输出电压调节范围： (Line Regulation) | $\pm 10\%$ |
| 电压调整率（主路）： (Line Regulation) | $\pm 0.2\%$ |
| 负载调整率（主路）： (Load Regulation) | $\pm 0.5\%$ |
| 温度变化率： (Temperature Coefficient) | $\pm 0.02\% / ^\circ C$ |
| 电流限制点： (Output Current Limiting) | 120% (Typ) |
| 瞬态响应： (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



物理特性

结构尺寸：139*88*23.5mm(CK)
139*88*25.5mm(CKK)
重量：CK:0.3Kg CKK:0.36Kg

一般特性

General Characteristics

| | |
|-------------------------------------|--------------------|
| 工作频率（典型值）： (Switching Frequency) | 200 KHz |
| 隔离电阻： (Isolation Resistance) | 200 (Typ) Ω |
| MTBF： | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出： (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳： (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳： (Output-Case) | > 500 V _{DC} |

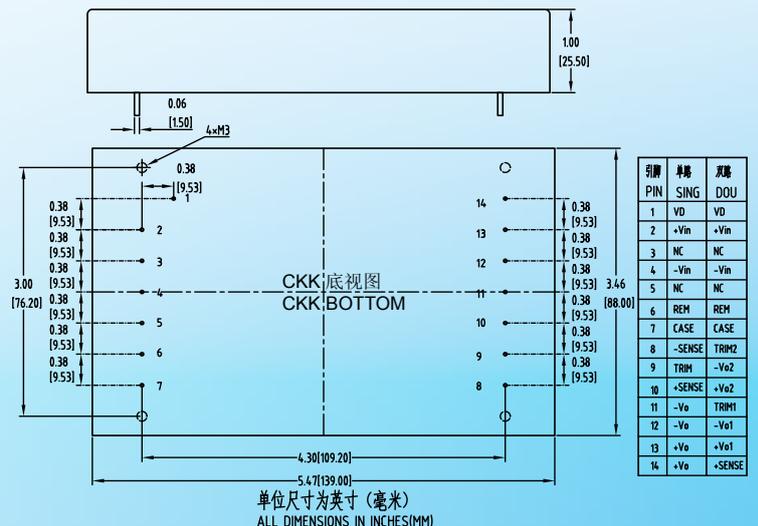
环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|--------------------|---------------------|
| 工作壳温： (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ C$ |
| | 军 I (Military I) | -40~+85 $^\circ C$ |
| | 军 II (Military II) | -55~+85 $^\circ C$ |
| 存储温度： (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ C$ |
| | 军品 (Military) | -55~+105 $^\circ C$ |

热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式： (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷： (Breeze of Nature) | 2.27 $^\circ C / W$ |
| 0.5M/S | 1.89 $^\circ C / W$ |
| 1M/S | 1.41 $^\circ C / W$ |
| 1.5M/S | 1.03 $^\circ C / W$ |
| 2M/S | 0.85 $^\circ C / W$ |



DC/DC CK,CKK 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|------------------|
| 12 | 9-18 | 5 | 20 | 50 | 82% | CK100-12S05 |
| 12 | 9-18 | 12 | 8.33 | 120 | 82% | CK100-12S12 |
| 12 | 9-18 | 24 | 4.17 | 200 | 83% | CK100-12S24 |
| 12 | 9-18 | 12 | 16.67 | 120 | 82% | CK200-12S12 |
| 12 | 9-18 | 24 | 8.33 | 200 | 83% | CK200-12S24 |
| 12 | 9-18 | 12 | 25 | 120 | 82% | CK300-12S12 |
| 12 | 9-18 | 24 | 12.5 | 200 | 83% | CK300-12S24 |
| 12 | 9-18 | 24 | 16.67 | 200 | 83% | CK400-12S24 |
| 12 | 9-18 | 48 | 8.33 | 300 | 84% | CK400-12S48 |
| 12 | 9-18 | 24 | 20.83 | 200 | 83% | CK500-12S24 |
| 12 | 9-18 | 48 | 10.42 | 300 | 84% | CK500-12S48 |
| 24 | 18-36 | 12 | 8.33 | 120 | 82% | CK100-24S12 |
| 24 | 18-36 | 24 | 4.17 | 200 | 83% | CK100-24S24 |
| 24 | 18-36 | 12 | 16.67 | 120 | 82% | CK200-24S12 |
| 24 | 18-36 | 24 | 8.33 | 200 | 83% | CK200-24S24 |
| 24 | 18-36 | 12 | 25 | 120 | 82% | CK300-24S12 |
| 24 | 18-36 | 24 | 12.5 | 200 | 83% | CK300-24S24 |
| 24 | 18-36 | 24 | 16.67 | 200 | 83% | CK400-24S24 |
| 24 | 18-36 | 48 | 8.33 | 300 | 84% | CK400-24S48 |
| 24 | 18-36 | 24 | 20.83 | 200 | 83% | CK500-24S24 |
| 24 | 18-36 | 48 | 10.42 | 300 | 84% | CK500-24S48 |
| 48 | 36-72 | 12 | 8.33 | 120 | 82% | CK100-48S12 |
| 48 | 36-72 | 24 | 4.17 | 200 | 83% | CK100-48S24 |
| 48 | 36-72 | 12 | 16.67 | 120 | 82% | CK200-48S12 |
| 48 | 36-72 | 24 | 8.33 | 200 | 83% | CK200-48S24 |
| 48 | 36-72 | 12 | 25 | 120 | 82% | CK300-48S12 |
| 48 | 36-72 | 24 | 12.5 | 200 | 83% | CK300-48S24 |
| 48 | 36-72 | 24 | 16.67 | 200 | 83% | CK400-48S24 |
| 48 | 36-72 | 48 | 8.33 | 300 | 84% | CK400-48S48 |
| 48 | 36-72 | 24 | 20.83 | 200 | 83% | CK500-48S24 |
| 48 | 36-72 | 48 | 10.42 | 300 | 84% | CK500-48S48 |
| 300 | 200-400 | 24 | 6.25 | 200 | 83% | CKK150-300S24 |
| 300 | 200-400 | 24 | 12.5 | 200 | 83% | CKK300-300S24 |
| 300 | 200-400 | 48 | 8.33 | 300 | 84% | CKK400-300S48 |
| 300 | 200-400 | 48 | 10.42 | 300 | 84% | CKK500-300S48 |
| 600 | 400-800 | 24 | 6.25 | 200 | 83% | CKK150-600S24 |
| 600 | 400-800 | 24 | 8.33 | 200 | 83% | CKK200-600S24 |
| 600 | 400-800 | 48 | 6.25 | 300 | 84% | CKK300-600S48 |
| 600 | 400-800 | 48 | 8.33 | 300 | 84% | CKK400-600S48 |
| 600 | 400-800 | 48 | 10.42 | 300 | 84% | CKK500-600S48 |
| 12 | 9-18 | 05&12 | 6&5.83 | 50&120 | 82% | CK100-12D05&12 |
| 12 | 9-18 | 12&12 | 8.33&8.33 | 120&120 | 82% | CK200-12D12&12 |
| 12 | 9-18 | 12&24 | 8.33&8.33 | 120&200 | 83% | CK300-12D12&24 |
| 24 | 18-36 | 24&24 | 8.33&8.33 | 200&200 | 84% | CK400-24D24&24 |
| 24 | 18-36 | 24&24 | 10.42&10.42 | 200&200 | 83% | CK500-24D24&24 |
| 24 | 18-36 | 24&48 | 8.33&6.25 | 200&300 | 84% | CK500-24D24&48 |
| 48 | 36-72 | 24&24 | 8.33&8.33 | 200&200 | 84% | CK400-48D24&24 |
| 48 | 36-72 | 24&48 | 8.33&6.25 | 200&300 | 84% | CK500-48D24&48 |
| 300 | 200-400 | 12&12 | 8.33&8.33 | 120&120 | 82% | CKK200-300D12&12 |
| 300 | 200-400 | 12&24 | 8.33&8.33 | 120&200 | 83% | CKK300-300D12&24 |
| 300 | 200-400 | 24&24 | 8.33&8.33 | 200&200 | 84% | CKK400-300D24&24 |
| 300 | 200-400 | 24&24 | 10.42&10.42 | 200&200 | 83% | CKK500-300D24&24 |

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■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CNZ 系列

高可靠性设计，
大电流、大功率输出

300-750W



物理特性

结构尺寸: 159*98*25.6mm
重量: 0.55 Kg

特性

Features

- 大电流，大功率输出 High output current and power
- 输入输出隔离 Completely isolated between input & output
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 自然冷却可附带散热器 Natural cooling,heat sink attachable
- 高效率，高可靠性 Design for high efficiency

输入特性

Input Characteristics

电压范围: **DC-DC** 24Vdc(Normal) 18-36Vdc
(Voltage Range) 48Vdc(Normal) 36-72Vdc

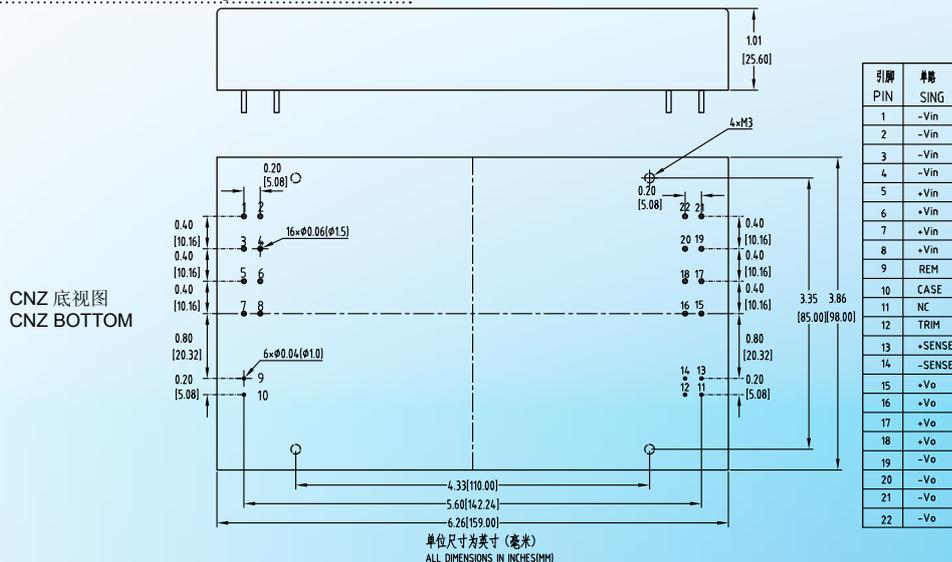
输出特性

Output Characteristics

稳压精度: (Regulated Voltage Accuracy) $\pm 1\%$
输出电压调节范围: (Line Regulation) $\pm 10\%$
电压调整率: (Line Regulation) $\pm 0.2\%$
负载调整率: (Load Regulation) $\pm 0.5\%$
温度变化率: (Temperature Coefficient) $\pm 0.02\% / ^\circ\text{C}$
电流限制点: (Output Current Limiting) 120% (Typ)
瞬态响应: (Transient Response) 400 μs

尺寸图

Dimensioned Drawing



一般特性

General Characteristics

工作频率 (典型值): (Switching Frequency) 200 KHz
隔离电阻: (Isolation Resistance) 200 (Typ)M Ω
MTBF: >500000 hrs

绝缘强度 (Insulation Voltage)

输入 - 输出: (Input-Output) > 1500 V_{DC}
输入 - 外壳: (Input-Case) > 1050 V_{DC}
输出 - 外壳: (Output-Case) > 500 V_{DC}

环境特性 (Environmental Characteristics)

工作壳温: (Operation Temperature) 工业品 (Industry) -25~+85 $^\circ\text{C}$
军 I (Military I) -40~+85 $^\circ\text{C}$
军 II (Military II) -55~+85 $^\circ\text{C}$
存储温度: (Storage Temperature) 工业品 (Industry) -45~+105 $^\circ\text{C}$
军品 (Military) -55~+105 $^\circ\text{C}$

热阻特性

Thermal Characteristics

冷却方式: (Cooling) 热阻 (Thermal Resistance)
自然风冷: (Breeze of Nature) 1.60 $^\circ\text{C} / \text{W}$
0.5M/S 1.33 $^\circ\text{C} / \text{W}$
1M/S 0.99 $^\circ\text{C} / \text{W}$
1.5M/S 0.72 $^\circ\text{C} / \text{W}$
2M/S 0.60 $^\circ\text{C} / \text{W}$

DC/DC CNZ 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 24 | 18-36 | 12 | 25 | 120 | 82% | CNZ300-24S12 |
| 24 | 18-36 | 13.8 | 21.74 | 120 | 82% | CNZ300-24S13.8 |
| 24 | 18-36 | 15 | 20 | 150 | 83% | CNZ300-24S15 |
| 24 | 18-36 | 12 | 29.17 | 120 | 82% | CNZ350-24S12 |
| 24 | 18-36 | 13.8 | 25.36 | 120 | 82% | CNZ350-24S13.8 |
| 24 | 18-36 | 15 | 23.33 | 150 | 83% | CNZ350-24S15 |
| 24 | 18-36 | 12 | 33.33 | 120 | 82% | CNZ400-24S12 |
| 24 | 18-36 | 13.8 | 28.99 | 120 | 82% | CNZ400-24S13.8 |
| 24 | 18-36 | 15 | 26.67 | 150 | 83% | CNZ400-24S15 |
| 24 | 18-36 | 24 | 16.67 | 200 | 83% | CNZ400-24S24 |
| 24 | 18-36 | 12 | 37.5 | 120 | 82% | CNZ450-24S12 |
| 24 | 18-36 | 13.8 | 32.61 | 120 | 82% | CNZ450-24S13.8 |
| 24 | 18-36 | 15 | 30 | 150 | 83% | CNZ450-24S15 |
| 24 | 18-36 | 24 | 18.75 | 200 | 83% | CNZ450-24S24 |
| 24 | 18-36 | 12 | 41.67 | 120 | 82% | CNZ500-24S12 |
| 24 | 18-36 | 13.8 | 36.23 | 120 | 82% | CNZ500-24S13.8 |
| 24 | 18-36 | 15 | 33.33 | 150 | 83% | CNZ500-24S15 |
| 24 | 18-36 | 24 | 20.83 | 200 | 83% | CNZ500-24S24 |
| 24 | 18-36 | 15 | 36.67 | 150 | 83% | CNZ550-24S15 |
| 24 | 18-36 | 24 | 22.92 | 200 | 83% | CNZ550-24S24 |
| 24 | 18-36 | 15 | 40 | 150 | 83% | CNZ600-24S15 |
| 24 | 18-36 | 24 | 25 | 200 | 83% | CNZ600-24S24 |
| 24 | 18-36 | 15 | 43.33 | 150 | 83% | CNZ650-24S15 |
| 24 | 18-36 | 24 | 27.08 | 200 | 83% | CNZ650-24S24 |
| 24 | 18-36 | 15 | 46.67 | 150 | 83% | CNZ700-24S15 |
| 24 | 18-36 | 24 | 29.17 | 200 | 83% | CNZ700-24S24 |
| 24 | 18-36 | 12 | 62.5 | 120 | 82% | CNZ750-24S12 |
| 24 | 18-36 | 15 | 50 | 150 | 83% | CNZ750-24S15 |
| 24 | 18-36 | 24 | 31.25 | 200 | 83% | CNZ750-24S24 |
| 48 | 36-72 | 12 | 25 | 120 | 82% | CNZ300-48S12 |
| 48 | 36-72 | 15 | 20 | 150 | 83% | CNZ300-48S15 |
| 48 | 36-72 | 12 | 29.17 | 120 | 82% | CNZ350-48S12 |
| 48 | 36-72 | 15 | 23.33 | 150 | 83% | CNZ350-48S15 |
| 48 | 36-72 | 12 | 33.33 | 120 | 82% | CNZ400-48S12 |
| 48 | 36-72 | 15 | 26.67 | 150 | 83% | CNZ400-48S15 |
| 48 | 36-72 | 24 | 16.67 | 200 | 83% | CNZ400-48S24 |
| 48 | 36-72 | 12 | 37.5 | 120 | 82% | CNZ450-48S12 |
| 48 | 36-72 | 15 | 30 | 150 | 83% | CNZ450-48S15 |
| 48 | 36-72 | 24 | 18.75 | 200 | 83% | CNZ450-48S24 |
| 48 | 36-72 | 12 | 41.67 | 120 | 82% | CNZ500-48S12 |
| 48 | 36-72 | 15 | 33.33 | 150 | 83% | CNZ500-48S15 |
| 48 | 36-72 | 24 | 20.83 | 200 | 83% | CNZ500-48S24 |
| 48 | 36-72 | 15 | 36.67 | 150 | 83% | CNZ550-48S15 |
| 48 | 36-72 | 24 | 22.92 | 200 | 83% | CNZ550-48S24 |
| 48 | 36-72 | 15 | 40 | 150 | 83% | CNZ600-48S15 |
| 48 | 36-72 | 24 | 25 | 200 | 83% | CNZ600-48S24 |
| 48 | 36-72 | 15 | 43.33 | 150 | 83% | CNZ650-48S15 |
| 48 | 36-72 | 24 | 27.08 | 200 | 83% | CNZ650-48S24 |
| 48 | 36-72 | 15 | 46.67 | 150 | 83% | CNZ700-48S15 |
| 48 | 36-72 | 24 | 29.17 | 200 | 83% | CNZ700-48S24 |
| 48 | 36-72 | 12 | 62.5 | 120 | 82% | CNZ750-48S12 |
| 48 | 36-72 | 15 | 50 | 150 | 83% | CNZ750-48S15 |
| 48 | 36-72 | 24 | 31.25 | 200 | 83% | CNZ750-48S24 |

单

路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CMZ 系列

工业标准 1/4 砖，高可靠性，高效率

50-100W



物理特性

结构尺寸: 57.9*36.8*12.7mm
重量: 0.07Kg

特性

Features

- 工业标准 1/4 砖 Industry standard 1/4 brick
- 高可靠性，高效率 Design for high reliability, high efficiency
- 快速动态响应 Fast dynamic response
- 高功率密度 High power density

输入特性

Input Characteristics

电压范围: **DC-DC** 24Vdc(Normal) 18-36Vdc
(Voltage Range) 48Vdc(Normal) 36-72Vdc

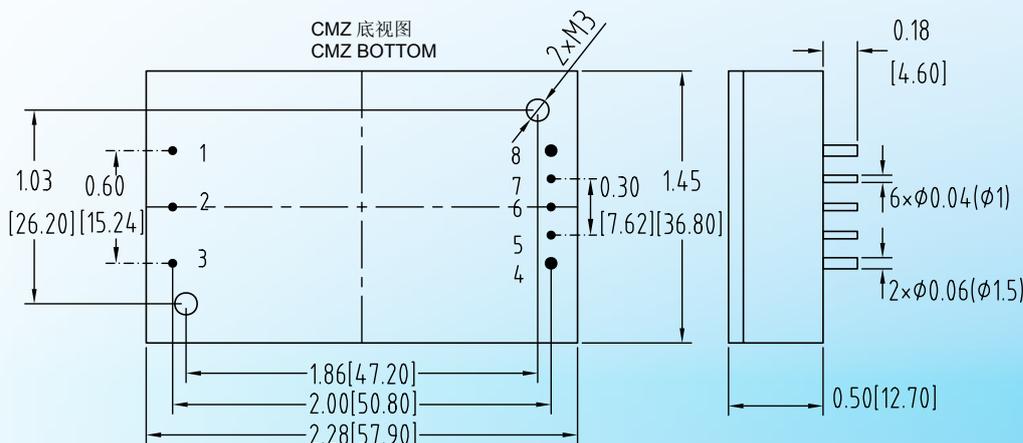
输出特性

Output Characteristics

稳压精度: (Regulated Voltage Accuracy) $\pm 1\%$
输出电压调节范围: (Line Regulation) $\pm 10\%$
电压调整率: (Line Regulation) $\pm 0.2\%$
负载调整率: (Load Regulation) $\pm 0.5\%$
温度变化率: (Temperature Coefficient) $\pm 0.02\% / ^\circ\text{C}$
电流限制点: (Output Current Limiting) 120% (Typ)
瞬态响应: (Transient Response) 400 μs

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

一般特性

General Characteristics

工作频率 (典型值): (Switching Frequency) 250 KHz
隔离电阻: (Isolation Resistance) 200 (Typ)M Ω
MTBF: >1000000 hrs

绝缘强度 (Insulation Voltage)

输入 - 输出: (Input-Output) > 500 Vdc
输入 - 外壳: (Input-Case) > 500 Vdc
输出 - 外壳: (Output-Case) > 500 Vdc

环境特性 (Environmental Characteristics)

| | | |
|-------------------------------|--------------------|---------------------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85 $^\circ\text{C}$ |
| | 军 I (Military I) | -40~+85 $^\circ\text{C}$ |
| | 军 II (Military II) | -55~+85 $^\circ\text{C}$ |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105 $^\circ\text{C}$ |
| | 军品 (Military) | -55~+105 $^\circ\text{C}$ |

热阻特性

Thermal Characteristics

| | | |
|--------------------------|--------------------------------|--------------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) | 热阻 (加散热器) (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 9.82 $^\circ\text{C}/\text{W}$ | 6.87 $^\circ\text{C}/\text{W}$ |
| 0.5M/S | 8.17 $^\circ\text{C}/\text{W}$ | 5.16 $^\circ\text{C}/\text{W}$ |
| 1M/S | 6.14 $^\circ\text{C}/\text{W}$ | 3.75 $^\circ\text{C}/\text{W}$ |
| 1.5M/S | 4.46 $^\circ\text{C}/\text{W}$ | 3.10 $^\circ\text{C}/\text{W}$ |
| 2M/S | 3.69 $^\circ\text{C}/\text{W}$ | 2.54 $^\circ\text{C}/\text{W}$ |

| 引脚 PIN | 单路 SING |
|--------|---------|
| 1 | -Vin |
| 2 | REM |
| 3 | +Vin |
| 4 | +Vo |
| 5 | +SENSE |
| 6 | TRIM |
| 7 | -SENSE |
| 8 | -Vo |

DC/DC CMZ 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|---|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 单 | 24 | 18-36 | 5 | 10 | 50 | 88% | CMZ50-24S05 |
| | 24 | 18-36 | 12 | 4.17 | 120 | 87% | CMZ50-24S12 |
| | 24 | 18-36 | 5 | 15 | 50 | 88% | CMZ75-24S05 |
| | 24 | 18-36 | 12 | 6.25 | 120 | 87% | CMZ75-24S12 |
| | 24 | 18-36 | 15 | 5 | 150 | 87% | CMZ75-24S15 |
| | 24 | 18-36 | 12 | 8.33 | 120 | 86% | CMZ100-24S12 |
| | 24 | 18-36 | 15 | 6.67 | 150 | 86% | CMZ100-24S15 |
| | 24 | 18-36 | 24 | 4.17 | 200 | 85% | CMZ100-24S24 |
| 路 | 48 | 36-72 | 5 | 10 | 50 | 88% | CMZ50-48S05 |
| | 48 | 36-72 | 12 | 4.17 | 120 | 87% | CMZ50-48S12 |
| | 48 | 36-72 | 5 | 15 | 50 | 88% | CMZ75-48S05 |
| | 48 | 36-72 | 12 | 6.25 | 120 | 86% | CMZ75-48S12 |
| | 48 | 36-72 | 15 | 5 | 150 | 86% | CMZ75-48S15 |
| | 48 | 36-72 | 12 | 8.33 | 120 | 85% | CMZ100-48S12 |
| | 48 | 36-72 | 15 | 6.67 | 150 | 86% | CMZ100-48S15 |
| | 48 | 36-72 | 24 | 4.17 | 200 | 85% | CMZ100-48S24 |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

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DC/DC CLZ 系列

工业标准 1/2 砖，高可靠性，高效率

75-150W



物理特性

结构尺寸: 61*57.9*12.7mm
重量: 0.11Kg

特性

Features

- 工业标准 1/2 砖 Industry standard 1/2 brick
- 1500VDC 绝缘强度 1500VDC isolation strength
- 快速动态响应 Fast dynamic response
- 高可靠性，高效率 Design for high reliability, high efficiency
- 高功率密度 High power density

输入特性

Input Characteristics

| | | | |
|--------------------------|--------------|-----------------------------|-----------------------|
| 电压范围: (Voltage Range) | DC-DC | 24V _{DC} (Normal) | 18-36V _{DC} |
| | | 48V _{DC} (Normal) | 36-72V _{DC} |
| | | 110V _{DC} (Normal) | 66-160V _{DC} |

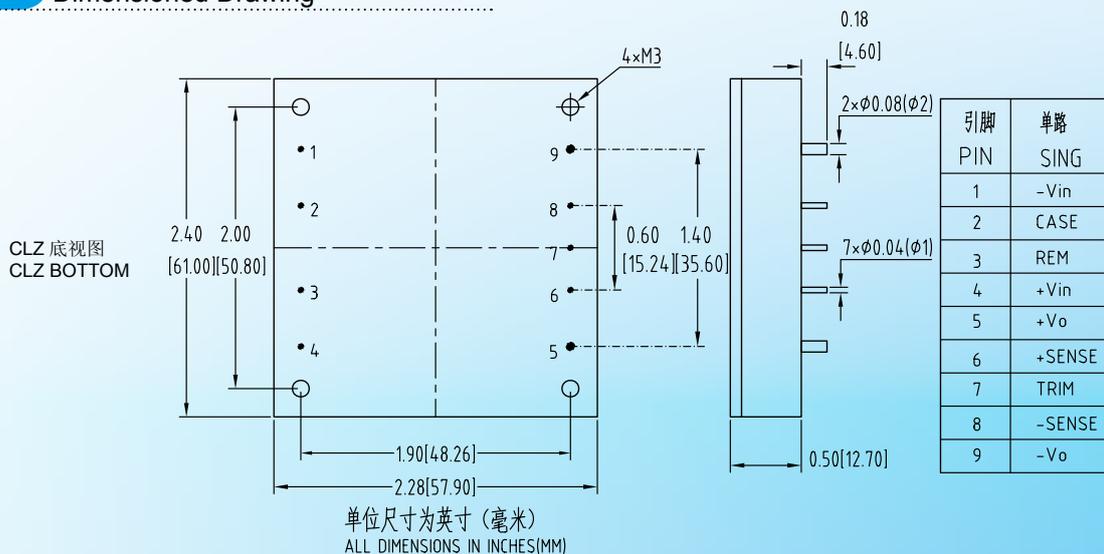
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 250 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >1000000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) | 热阻 (加散热器) (Thermal Resistance) |
|-----------------------------|----------------------------|-----------------------------------|
| 自然风冷: (Breeze of Nature) | 6.67°C /W | 4.66°C /W |
| 0.5M/S | 5.56°C /W | 3.89°C /W |
| 1M/S | 4.15°C /W | 2.90°C /W |
| 1.5M/S | 3.02°C /W | 2.11°C /W |
| 2M/S | 2.50°C /W | 1.75°C /W |

DC/DC CLZ 系列

型号

Models

| 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 24 | 18-36 | 5 | 15 | 50 | 89% | CLZ75-24S05 |
| 24 | 18-36 | 12 | 6.25 | 120 | 87% | CLZ75-24S12 |
| 24 | 18-36 | 15 | 5 | 150 | 87% | CLZ75-24S15 |
| 24 | 18-36 | 5 | 20 | 50 | 89% | CLZ100-24S05 |
| 24 | 18-36 | 12 | 8.33 | 120 | 87% | CLZ100-24S12 |
| 24 | 18-36 | 15 | 6.67 | 150 | 87% | CLZ100-24S15 |
| 24 | 18-36 | 24 | 4.17 | 200 | 86% | CLZ100-24S24 |
| 24 | 18-36 | 28 | 3.57 | 300 | 86% | CLZ100-24S28 |
| 24 | 18-36 | 5 | 25 | 50 | 89% | CLZ125-24S05 |
| 24 | 18-36 | 12 | 10.42 | 120 | 87% | CLZ125-24S12 |
| 24 | 18-36 | 15 | 8.33 | 150 | 87% | CLZ125-24S15 |
| 24 | 18-36 | 24 | 5.21 | 200 | 86% | CLZ125-24S24 |
| 24 | 18-36 | 28 | 4.46 | 300 | 86% | CLZ125-24S28 |
| 24 | 18-36 | 5 | 30 | 50 | 89% | CLZ150-24S05 |
| 24 | 18-36 | 12 | 12.5 | 120 | 87% | CLZ150-24S12 |
| 24 | 18-36 | 15 | 10 | 150 | 87% | CLZ150-24S15 |
| 24 | 18-36 | 24 | 6.25 | 200 | 86% | CLZ150-24S24 |
| 24 | 18-36 | 28 | 5.36 | 300 | 86% | CLZ150-24S28 |
| 48 | 36-72 | 5 | 15 | 50 | 89% | CLZ75-48S05 |
| 48 | 36-72 | 12 | 6.25 | 120 | 87% | CLZ75-48S12 |
| 48 | 36-72 | 15 | 5 | 150 | 87% | CLZ75-48S15 |
| 48 | 36-72 | 5 | 20 | 50 | 89% | CLZ100-48S05 |
| 48 | 36-72 | 12 | 8.33 | 120 | 87% | CLZ100-48S12 |
| 48 | 36-72 | 15 | 6.67 | 150 | 87% | CLZ100-48S15 |
| 48 | 36-72 | 24 | 4.17 | 200 | 86% | CLZ100-48S24 |
| 48 | 36-72 | 28 | 3.57 | 300 | 86% | CLZ100-48S28 |
| 48 | 36-72 | 5 | 25 | 50 | 89% | CLZ125-48S05 |
| 48 | 36-72 | 12 | 10.42 | 120 | 87% | CLZ125-48S12 |
| 48 | 36-72 | 15 | 8.33 | 150 | 87% | CLZ125-48S15 |
| 48 | 36-72 | 24 | 5.21 | 200 | 87% | CLZ125-48S24 |
| 48 | 36-72 | 28 | 4.46 | 300 | 87% | CLZ125-48S28 |
| 48 | 36-72 | 5 | 30 | 50 | 89% | CLZ150-48S05 |
| 48 | 36-72 | 12 | 12.5 | 120 | 87% | CLZ150-48S12 |
| 48 | 36-72 | 15 | 10 | 150 | 87% | CLZ150-48S15 |
| 48 | 36-72 | 24 | 6.25 | 200 | 87% | CLZ150-48S24 |
| 48 | 36-72 | 28 | 5.36 | 300 | 87% | CLZ150-48S28 |
| 110 | 66-160 | 5 | 15 | 50 | 89% | CLZ75-110S05 |
| 110 | 66-160 | 12 | 6.25 | 120 | 87% | CLZ75-110S12 |
| 110 | 66-160 | 15 | 5 | 150 | 87% | CLZ75-110S15 |
| 110 | 66-160 | 5 | 20 | 50 | 89% | CLZ100-110S05 |
| 110 | 66-160 | 12 | 8.33 | 120 | 87% | CLZ100-110S12 |
| 110 | 66-160 | 15 | 6.67 | 150 | 87% | CLZ100-110S15 |
| 110 | 66-160 | 24 | 4.17 | 200 | 87% | CLZ100-110S24 |
| 110 | 66-160 | 28 | 3.57 | 300 | 87% | CLZ100-110S28 |
| 110 | 66-160 | 5 | 25 | 50 | 89% | CLZ125-110S05 |
| 110 | 66-160 | 12 | 10.42 | 120 | 87% | CLZ125-110S12 |
| 110 | 66-160 | 15 | 8.33 | 150 | 87% | CLZ125-110S15 |
| 110 | 66-160 | 24 | 5.21 | 200 | 87% | CLZ125-110S24 |
| 110 | 66-160 | 28 | 4.46 | 300 | 87% | CLZ125-110S28 |
| 110 | 66-160 | 5 | 30 | 50 | 89% | CLZ150-110S05 |
| 110 | 66-160 | 12 | 12.5 | 120 | 87% | CLZ150-110S12 |
| 110 | 66-160 | 15 | 10 | 150 | 87% | CLZ150-110S15 |
| 110 | 66-160 | 24 | 6.25 | 200 | 87% | CLZ150-110S24 |
| 110 | 66-160 | 28 | 5.36 | 300 | 87% | CLZ150-110S28 |

单
路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC CHZ 系列

工业标准整砖，高可靠性，
高效率

75-150W



特性

Features

- 工业标准全砖 Industry standard brick
- 同步整流技术 Synchronous rectification
- 1500VDC 绝缘强度 1500VDC isolation strength
- 高效率，低噪音 High efficiency, low noise
- 高功率密度 High power density
- 快速动态响应 Fast dynamic response

输入特性

Input Characteristics

电压范围: **DC-DC** 24V_{DC}(Normal) 18-36V_{DC}
(Voltage Range) 48V_{DC}(Normal) 36-72V_{DC}

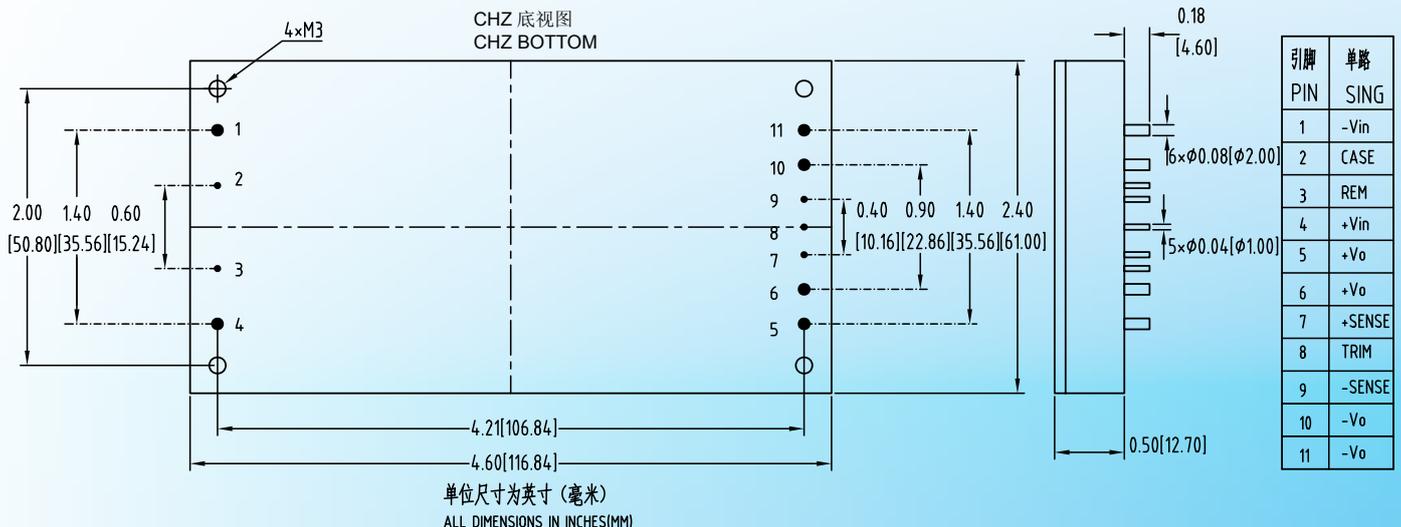
输出特性

Output Characteristics

稳压精度: (Regulated Voltage Accuracy) ± 1%
输出电压调节范围: (Line Regulation) ± 10%
电压调整率: (Line Regulation) ± 0.2%
负载调整率: (Load Regulation) ± 0.5%
温度变化率: (Temperature Coefficient) ± 0.02% /°C
电流限制点: (Output Current Limiting) 120% (Typ)
瞬态响应: (Transient Response) 400 μs

尺寸图

Dimensioned Drawing



物理特性

结构尺寸: 116.8*61*12.7mm
重量: 0.2Kg

一般特性

General Characteristics

工作频率(典型值): (Switching Frequency) 250 KHz
隔离电阻: (Isolation Resistance) 200 (Typ)MΩ
MTBF: >1000000 hrs

绝缘强度 (Insulation Voltage)

输入-输出: (Input-Output) > 1500 V_{DC}
输入-外壳: (Input-Case) > 1050 V_{DC}
输出-外壳: (Output-Case) > 500 V_{DC}

环境特性 (Environmental Characteristics)

工作壳温: (Operation Temperature) 工业品 (Industry) -25~+85°C
军 I (Military I) -40~+85°C
军 II (Military II) -55~+85°C
存储温度: (Storage Temperature) 工业品 (Industry) -45~+105°C
军品 (Military) -55~+105°C

热阻特性

Thermal Characteristics

冷却方式: (Cooling) 自然风冷: (Breeze of Nature)
热阻 (Thermal Resistance) 热阻 (加散热器) (Thermal Resistance with Heat Sink)
0.5M/S 2.30°C/W 1.32°C/W
1M/S 1.72°C/W 0.96°C/W
1.5M/S 1.25°C/W 0.79°C/W
2M/S 1.04°C/W 2.12°C/W

DC/DC CHZ 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|---|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|--------------|
| 单 | 24 | 18-36 | 5 | 30 | 50 | 90% | CHZ150-24S05 |
| | 24 | 18-36 | 12 | 12.5 | 120 | 88% | CHZ150-24S12 |
| | 24 | 18-36 | 15 | 10 | 150 | 87% | CHZ150-24S15 |
| | 24 | 18-36 | 5 | 40 | 50 | 90% | CHZ200-24S05 |
| | 24 | 18-36 | 12 | 16.67 | 120 | 87% | CHZ200-24S12 |
| | 24 | 18-36 | 15 | 13.33 | 150 | 87% | CHZ200-24S15 |
| | 24 | 18-36 | 5 | 50 | 50 | 90% | CHZ250-24S05 |
| | 24 | 18-36 | 12 | 20.83 | 120 | 87% | CHZ250-24S12 |
| | 24 | 18-36 | 15 | 16.67 | 150 | 87% | CHZ250-24S15 |
| | 24 | 18-36 | 5 | 60 | 50 | 90% | CHZ300-24S05 |
| | 24 | 18-36 | 12 | 25 | 120 | 87% | CHZ300-24S12 |
| | 24 | 18-36 | 15 | 20 | 150 | 87% | CHZ300-24S15 |
| 路 | 48 | 36-72 | 5 | 30 | 50 | 90% | CHZ150-48S05 |
| | 48 | 36-72 | 12 | 12.5 | 120 | 87% | CHZ150-48S12 |
| | 48 | 36-72 | 15 | 10 | 150 | 87% | CHZ150-48S15 |
| | 48 | 36-72 | 5 | 40 | 50 | 90% | CHZ200-48S05 |
| | 48 | 36-72 | 12 | 16.67 | 120 | 87% | CHZ200-48S12 |
| | 48 | 36-72 | 15 | 13.33 | 150 | 87% | CHZ200-48S15 |
| | 48 | 36-72 | 5 | 50 | 50 | 90% | CHZ250-48S05 |
| | 48 | 36-72 | 12 | 20.83 | 120 | 87% | CHZ250-48S12 |
| | 48 | 36-72 | 15 | 16.67 | 150 | 87% | CHZ250-48S15 |
| | 48 | 36-72 | 24 | 10.42 | 200 | 87% | CHZ250-48S24 |
| | 48 | 36-72 | 5 | 60 | 50 | 90% | CHZ300-48S05 |
| | 48 | 36-72 | 12 | 25 | 120 | 87% | CHZ300-48S12 |
| | 48 | 36-72 | 15 | 20 | 150 | 87% | CHZ300-48S15 |
| | 48 | 36-72 | 24 | 12.5 | 200 | 87% | CHZ300-48S24 |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

DC/DC MZB 系列

引出脚功能兼容，高可靠性，高效率

50-75W



物理特性

结构尺寸: 86*41*12.7mm
重量: 0.1Kg

特性

Features

- 管脚功能兼容 Pin function compatible
- 1500VDC 绝缘强度 1500VDC isolation strength
- 快速动态响应 Fast dynamic response
- 高可靠性，高效率 Design for high reliability, high efficiency
- 高功率密度 High power density

输入特性

Input Characteristics

电压范围: **DC-DC** 110V_{DC}(Normal) 66-160V_{DC}
(Voltage Range)

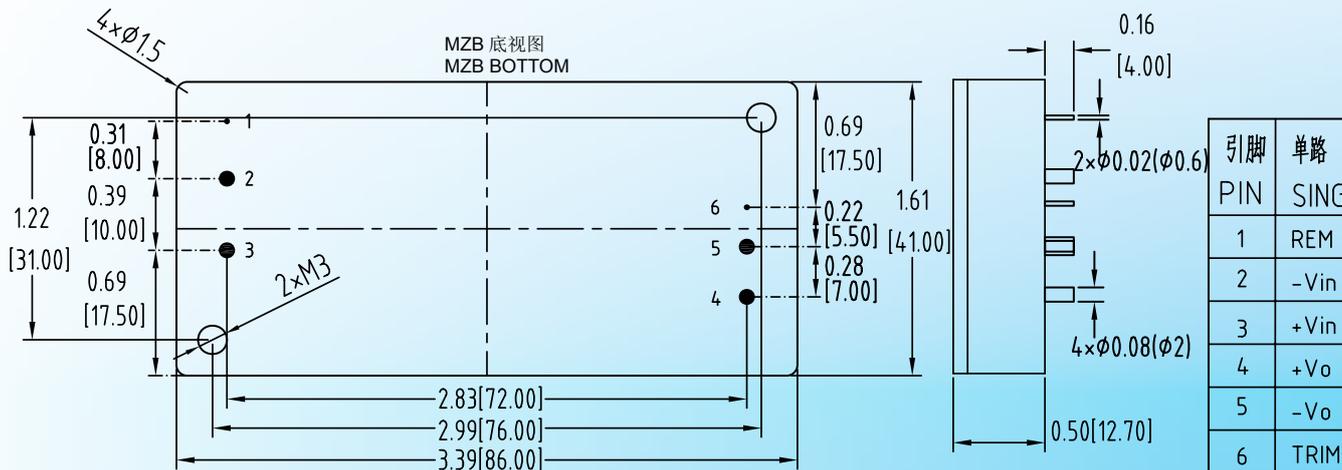
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 250 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >1000000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) | 热阻 (加散热器) (Thermal Resistance) |
|-----------------------------|----------------------------|-----------------------------------|
| 自然风冷: (Breeze of Nature) | 6.52°C /W | 5.30°C /W |
| 0.5M/S | 5.43°C /W | 4.42°C /W |
| 1M/S | 4.07°C /W | 3.31°C /W |
| 1.5M/S | 2.96°C /W | 2.41°C /W |
| 2M/S | 2.44°C /W | 1.99°C /W |

DC/DC MZB 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|--------|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 单 路 | 110 | 66-160 | 5.5 | 10.91 | 50 | 88% | MZB60-110S5.5 |
| | 110 | 66-160 | 12 | 5 | 120 | 88% | MZB60-110S12 |
| | 110 | 66-160 | 13.6 | 4.41 | 120 | 88% | MZB60-110S13.6 |
| | 110 | 66-160 | 15 | 4 | 150 | 87% | MZB60-110S15 |
| | 110 | 66-160 | 5.5 | 13.64 | 50 | 89% | MZB75-110S5.5 |
| | 110 | 66-160 | 12 | 6.25 | 120 | 88% | MZB75-110S12 |
| | 110 | 66-160 | 13.6 | 5.51 | 120 | 88% | MZB75-110S13.6 |
| | 110 | 66-160 | 15 | 5 | 150 | 87% | MZB75-110S15 |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。
Only typical models and listed.If you need other models,please confirm the power,input voltage and output voltage,then phone us.

DC/DC MZA 系列

引出脚功能兼容，高可靠性，高效率

75-150W



物理特性

结构尺寸: 86*72*12.7mm
重量: 0.25Kg

特性

Features

- 管脚功能兼容 Pin function compatible
- 满负荷效率可达 88%@5V Full load efficiency up to 88%@5V
- 1500VDC 绝缘强度 1500VDC isolation strength
- 高可靠性，高效率 Design for high reliability, high efficiency
- 高功率密度 High power density

输入特性

Input Characteristics

电压范围: **DC-DC** 300V_{DC}(Normal) 200-400V_{DC}
(Voltage Range)

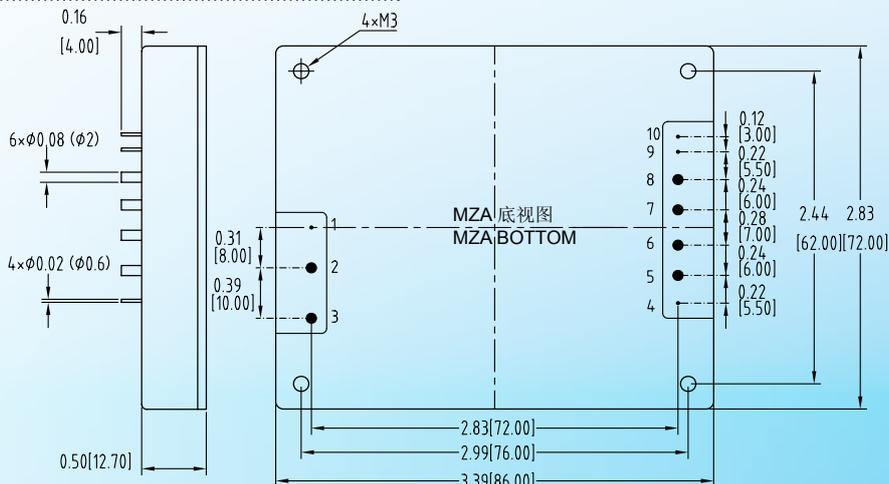
输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 输出电压调节范围: (Line Regulation) | ± 10% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 电流限制点: (Output Current Limiting) | 120% (Typ) |
| 瞬态响应: (Transient Response) | 400 μs |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

| 引脚 | 单路 |
|-----|--------|
| PIN | SING |
| 1 | REM |
| 2 | -Vin |
| 3 | +Vin |
| 4 | +SENSE |
| 5 | +Vo |
| 6 | +Vo |
| 7 | -Vo |
| 8 | -Vo |
| 9 | -SENSE |
| 10 | TRIM |

一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 250 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >1000000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|------------------------|
| 输入 - 输出: (Input-Output) | > 1500 V _{DC} |
| 输入 - 外壳: (Input-Case) | > 1050 V _{DC} |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

热阻特性

Thermal Characteristics

| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) | 热阻 (加散热器) (Thermal Resistance) |
|-----------------------------|----------------------------|-----------------------------------|
| 自然风冷: (Breeze of Nature) | 3.18°C/W | 2.21°C/W |
| 0.5M/S | 2.65°C/W | 1.66°C/W |
| 1M/S | 1.99°C/W | 1.21°C/W |
| 1.5M/S | 1.45°C/W | 0.99°C/W |
| 2M/S | 1.19°C/W | 0.81°C/W |

DC/DC MZA 系列

型号

Models

| | 输入电压 (Vdc) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|--------|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 单 路 | 300 | 200-400 | 12 | 8.33 | 120 | 87% | MZA100-300S12 |
| | 300 | 200-400 | 15 | 6.67 | 150 | 87% | MZA100-300S15 |
| | 300 | 200-400 | 12 | 10 | 120 | 87% | MZA120-300S12 |
| | 300 | 200-400 | 15 | 8 | 150 | 87% | MZA120-300S15 |
| | 300 | 200-400 | 12 | 11.25 | 120 | 87% | MZA135-300S12 |
| | 300 | 200-400 | 15 | 9 | 150 | 88% | MZA135-300S15 |
| | 300 | 200-400 | 12 | 12.5 | 120 | 87% | MZA150-300S12 |
| | 300 | 200-400 | 15 | 10 | 150 | 87% | MZA150-300S15 |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。
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AC/DC CAA 系列

宽电压输入范围 (85-265VAC)
引出脚功能兼容

5-10W



物理特性

结构尺寸: 55*45*21.5mm
重量: 0.14Kg

特性

Features

- | | |
|-------------------------|---|
| ■ 宽电压输入范围 | Wide range of input voltage |
| ■ 输入宽频噪声滤波器 | Wideband noise filter of input |
| ■ 快速动态响应 | Fast dynamic response |
| ■ 引出脚功能兼容 | Pin function compatible |
| ■ 外型设计美观 | Attractive outline design |
| ■ 符合 UL1950、IEC950 安全规程 | Comply with UL1950, IEC950 safety regulations |

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range) 85-264V_{AC}

输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 瞬态响应: (Transient Response) | 400 μs |

一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ) MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

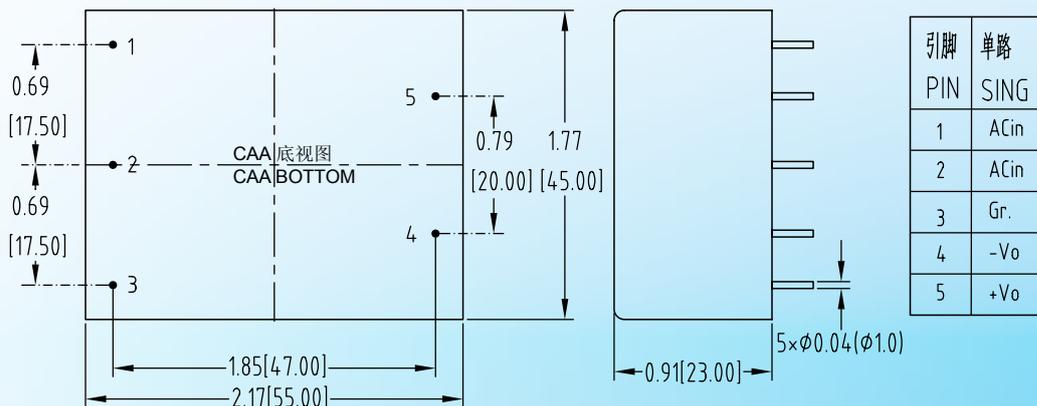
| | |
|----------------------------|--|
| 输入 - 输出: (Input-Output) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输入 - 外壳: (Input-Case) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} /1min |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

| 引脚 PIN | 单路 SING |
|-----------|------------|
| 1 | ACin |
| 2 | ACin |
| 3 | Gr. |
| 4 | -Vo |
| 5 | +Vo |

型号

Models

| | 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|--------|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 单 路 | 220 | 176-264 | 3.3 | 1.52 | 50 | 82% | CAA05-220S3.3 |
| | 220 | 176-264 | 5 | 1 | 50 | 82% | CAA05-220S05 |
| | 220 | 176-264 | 9 | 0.56 | 90 | 82% | CAA05-220S09 |
| | 220 | 176-264 | 12 | 0.42 | 120 | 82% | CAA05-220S12 |
| | 220 | 176-264 | 13.8 | 0.36 | 120 | 82% | CAA05-220S13.8 |
| | 220 | 176-264 | 15 | 0.33 | 150 | 82% | CAA05-220S15 |
| | 220 | 176-264 | 18 | 0.28 | 200 | 82% | CAA05-220S18 |
| | 220 | 176-264 | 20 | 0.25 | 200 | 83% | CAA05-220S20 |
| | 220 | 176-264 | 24 | 0.21 | 200 | 83% | CAA05-220S24 |
| | 220 | 176-264 | 3.3 | 2.42 | 50 | 82% | CAA08-220S3.3 |
| | 220 | 176-264 | 5 | 1.6 | 50 | 82% | CAA08-220S05 |
| | 220 | 176-264 | 9 | 0.89 | 90 | 82% | CAA08-220S09 |
| | 220 | 176-264 | 12 | 0.67 | 120 | 82% | CAA08-220S12 |
| | 220 | 176-264 | 13.8 | 0.58 | 120 | 82% | CAA08-220S13.8 |
| | 220 | 176-264 | 15 | 0.53 | 150 | 82% | CAA08-220S15 |
| | 220 | 176-264 | 18 | 0.44 | 200 | 82% | CAA08-220S18 |
| | 220 | 176-264 | 20 | 0.4 | 200 | 83% | CAA08-220S20 |
| | 220 | 176-264 | 24 | 0.33 | 200 | 83% | CAA08-220S24 |
| | 220 | 176-264 | 3.3 | 3.03 | 50 | 82% | CAA10-220S3.3 |
| | 220 | 176-264 | 5 | 2 | 50 | 82% | CAA10-220S05 |
| | 220 | 176-264 | 9 | 1.11 | 90 | 82% | CAA10-220S09 |
| | 220 | 176-264 | 12 | 0.83 | 120 | 82% | CAA10-220S12 |
| | 220 | 176-264 | 13.8 | 0.72 | 120 | 82% | CAA10-220S13.8 |
| | 220 | 176-264 | 15 | 0.67 | 150 | 82% | CAA10-220S15 |
| | 220 | 176-264 | 18 | 0.56 | 200 | 82% | CAA10-220S18 |
| | 220 | 176-264 | 20 | 0.5 | 200 | 83% | CAA10-220S20 |
| | 220 | 176-264 | 24 | 0.42 | 200 | 83% | CAA10-220S24 |
| | 220 | 85-264 | 3.3 | 1.52 | 50 | 82% | CAA05-220S3.3 |
| | 220 | 85-264 | 5 | 1 | 50 | 82% | CAA05-220S05 |
| | 220 | 85-264 | 9 | 0.56 | 90 | 82% | CAA05-220S09 |
| | 220 | 85-264 | 12 | 0.42 | 120 | 82% | CAA05-220S12 |
| | 220 | 85-264 | 13.8 | 0.36 | 120 | 82% | CAA05-220S13.8 |
| | 220 | 85-264 | 15 | 0.33 | 150 | 82% | CAA05-220S15 |
| | 220 | 85-264 | 18 | 0.28 | 200 | 82% | CAA05-220S18 |
| | 220 | 85-264 | 20 | 0.25 | 200 | 83% | CAA05-220S20 |
| | 220 | 85-264 | 24 | 0.21 | 200 | 83% | CAA05-220S24 |
| | 220 | 85-264 | 3.3 | 2.42 | 50 | 82% | CAA08-220S3.3 |
| | 220 | 85-264 | 5 | 1.6 | 50 | 82% | CAA08-220S05 |
| | 220 | 85-264 | 9 | 0.89 | 90 | 82% | CAA08-220S09 |
| | 220 | 85-264 | 12 | 0.67 | 120 | 82% | CAA08-220S12 |
| | 220 | 85-264 | 13.8 | 0.58 | 120 | 82% | CAA08-220S13.8 |
| | 220 | 85-264 | 15 | 0.53 | 150 | 82% | CAA08-220S15 |
| | 220 | 85-264 | 18 | 0.44 | 200 | 82% | CAA08-220S18 |
| | 220 | 85-264 | 20 | 0.4 | 200 | 83% | CAA08-220S20 |
| | 220 | 85-264 | 24 | 0.33 | 200 | 83% | CAA08-220S24 |
| | 220 | 85-264 | 3.3 | 3.03 | 50 | 82% | CAA10-220S3.3 |
| | 220 | 85-264 | 5 | 2 | 50 | 82% | CAA10-220S05 |
| | 220 | 85-264 | 9 | 1.11 | 90 | 82% | CAA10-220S09 |
| 220 | 85-264 | 12 | 0.83 | 120 | 82% | CAA10-220S12 | |
| 220 | 85-264 | 13.8 | 0.72 | 120 | 82% | CAA10-220S13.8 | |
| 220 | 85-264 | 15 | 0.67 | 150 | 82% | CAA10-220S15 | |
| 220 | 85-264 | 18 | 0.56 | 200 | 82% | CAA10-220S18 | |
| 220 | 85-264 | 20 | 0.5 | 200 | 83% | CAA10-220S20 | |
| 220 | 85-264 | 24 | 0.42 | 200 | 83% | CAA10-220S24 | |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

AC/DC CBA 系列

引出脚功能兼容，外型设计美观

15-25W



物理特性

结构尺寸: 70*48*23.5mm
重量: 0.19Kg

特性

Features

- | | |
|-------------------------|---|
| ■ 宽电压输入范围 | Wide range of input voltage |
| ■ 输入宽频噪声滤波器 | Wideband noise filter of input |
| ■ 快速动态响应 | Fast dynamic response |
| ■ 引出脚功能兼容 | Pin function compatible |
| ■ 外型设计美观 | Attractive outline design |
| ■ 符合 UL1950、IEC950 安全规程 | Comply with UL1950, IEC950 safety regulations |

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range) 85-264V_{AC}

输出特性

Output Characteristics

稳压精度: ± 1%
(Regulated Voltage Accuracy)

电压调整率: ± 0.2%
(Line Regulation)

负载调整率: ± 0.5%
(Load Regulation)

温度变化率: ± 0.02% /°C
(Temperature Coefficient)

瞬态响应: 400 μs
(Transient Response)

一般特性

General Characteristics

工作频率 (典型值): 200 KHz
(Switching Frequency)

隔离电阻: 200 (Typ) MΩ
(Isolation Resistance)

MTBF: >500000 hrs

绝缘强度 (Insulation Voltage)

输入 - 输出: > 1500 V_{AC}/1min (漏电流 < 5mA)
(Input-Output)

输入 - 外壳: > 1500 V_{AC}/1min (漏电流 < 5mA)
(Input-Case)

输出 - 外壳: > 500 V_{DC}/1min
(Output-Case)

环境特性 (Environmental Characteristics)

工作壳温: 工业品 -25~+85°C
(Operation Temperature) (Industry)

军 I (Military I) -40~+85°C

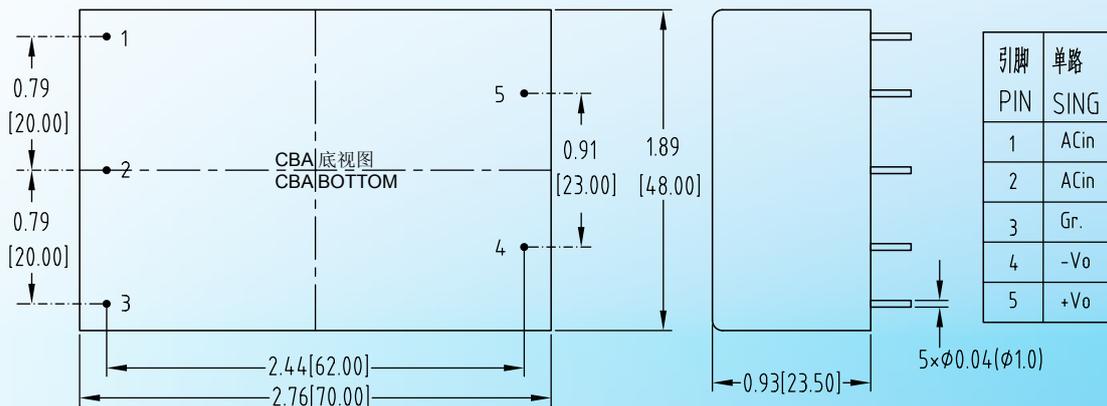
军 II (Military II) -55~+85°C

存储温度: 工业品 -45~+105°C
(Storage Temperature) (Industry)

军品 (Military) -55~+105°C

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

型号

Models

| 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|----------------|
| 220 | 176-264 | 5 | 3 | 50 | 82% | CBA15-220S05 |
| 220 | 176-264 | 9 | 1.67 | 90 | 82% | CBA15-220S09 |
| 220 | 176-264 | 12 | 1.25 | 120 | 82% | CBA15-220S12 |
| 220 | 176-264 | 13.8 | 1.09 | 120 | 82% | CBA15-220S13.8 |
| 220 | 176-264 | 15 | 1 | 150 | 82% | CBA15-220S15 |
| 220 | 176-264 | 18 | 0.83 | 200 | 82% | CBA15-220S18 |
| 220 | 176-264 | 24 | 0.63 | 200 | 83% | CBA15-220S24 |
| 220 | 176-264 | 5 | 3.60 | 50 | 82% | CBA18-220S05 |
| 220 | 176-264 | 9 | 2 | 90 | 82% | CBA18-220S09 |
| 220 | 176-264 | 12 | 1.5 | 120 | 82% | CBA18-220S12 |
| 220 | 176-264 | 13.8 | 1.3 | 120 | 82% | CBA18-220S13.8 |
| 220 | 176-264 | 15 | 1.2 | 150 | 82% | CBA18-220S15 |
| 220 | 176-264 | 18 | 1 | 200 | 82% | CBA18-220S18 |
| 220 | 176-264 | 24 | 0.75 | 200 | 83% | CBA18-220S24 |
| 220 | 176-264 | 5 | 4 | 50 | 82% | CBA20-220S05 |
| 220 | 176-264 | 9 | 2.22 | 90 | 82% | CBA20-220S09 |
| 220 | 176-264 | 12 | 1.67 | 120 | 82% | CBA20-220S12 |
| 220 | 176-264 | 13.8 | 1.45 | 120 | 82% | CBA20-220S13.8 |
| 220 | 176-264 | 15 | 1.33 | 150 | 82% | CBA20-220S15 |
| 220 | 176-264 | 18 | 1.11 | 200 | 82% | CBA20-220S18 |
| 220 | 176-264 | 24 | 0.83 | 200 | 83% | CBA20-220S24 |
| 220 | 176-264 | 9 | 2.78 | 90 | 82% | CBA25-220S09 |
| 220 | 176-264 | 12 | 2.08 | 120 | 82% | CBA25-220S12 |
| 220 | 176-264 | 13.8 | 1.81 | 120 | 82% | CBA25-220S13.8 |
| 220 | 176-264 | 15 | 1.67 | 150 | 82% | CBA25-220S15 |
| 220 | 176-264 | 18 | 1.39 | 200 | 82% | CBA25-220S18 |
| 220 | 176-264 | 24 | 1.04 | 200 | 83% | CBA25-220S24 |
| 220 | 85-264 | 5 | 3 | 50 | 82% | CBA15-220S05 |
| 220 | 85-264 | 9 | 1.67 | 90 | 82% | CBA15-220S09 |
| 220 | 85-264 | 12 | 1.25 | 120 | 82% | CBA15-220S12 |
| 220 | 85-264 | 13.8 | 1.09 | 120 | 82% | CBA15-220S13.8 |
| 220 | 85-264 | 15 | 1 | 150 | 82% | CBA15-220S15 |
| 220 | 85-264 | 18 | 0.83 | 200 | 82% | CBA15-220S18 |
| 220 | 85-264 | 24 | 0.63 | 200 | 83% | CBA15-220S24 |
| 220 | 85-264 | 5 | 3.60 | 50 | 82% | CBA18-220S05 |
| 220 | 85-264 | 9 | 2 | 90 | 82% | CBA18-220S09 |
| 220 | 85-264 | 12 | 1.5 | 120 | 82% | CBA18-220S12 |
| 220 | 85-264 | 13.8 | 1.3 | 120 | 82% | CBA18-220S13.8 |
| 220 | 85-264 | 15 | 1.2 | 150 | 82% | CBA18-220S15 |
| 220 | 85-264 | 18 | 1 | 200 | 82% | CBA18-220S18 |
| 220 | 85-264 | 24 | 0.75 | 200 | 83% | CBA18-220S24 |
| 220 | 85-264 | 5 | 4 | 50 | 82% | CBA20-220S05 |
| 220 | 85-264 | 9 | 2.22 | 90 | 82% | CBA20-220S09 |
| 220 | 85-264 | 12 | 1.67 | 120 | 82% | CBA20-220S12 |
| 220 | 85-264 | 13.8 | 1.45 | 120 | 82% | CBA20-220S13.8 |
| 220 | 85-264 | 15 | 1.33 | 150 | 82% | CBA20-220S15 |
| 220 | 85-264 | 18 | 1.11 | 200 | 82% | CBA20-220S18 |
| 220 | 85-264 | 24 | 0.83 | 200 | 83% | CBA20-220S24 |
| 220 | 85-264 | 9 | 2.78 | 90 | 82% | CBA25-220S09 |
| 220 | 85-264 | 12 | 2.08 | 120 | 82% | CBA25-220S12 |
| 220 | 85-264 | 13.8 | 1.81 | 120 | 82% | CBA25-220S13.8 |
| 220 | 85-264 | 15 | 1.67 | 150 | 82% | CBA25-220S15 |
| 220 | 85-264 | 18 | 1.39 | 200 | 82% | CBA25-220S18 |
| 220 | 85-264 | 24 | 1.04 | 200 | 83% | CBA25-220S24 |

单

路

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

AC/DC CEW 系列

外型设计美观，双路独立稳压

50-75W



物理特性

结构尺寸: 127*88.9*25mm
重量: 0.33Kg

特性

Features

- 宽电压输入范围 Wide range of input voltage
- 输入宽频噪声滤波器 Wideband noise filter of input
- 快速动态响应 Fast dynamic response
- 引出脚功能兼容 Pin function compatible
- 外型设计美观 Attractive outline design
- 符合 UL1950、IEC950 安全规程 Comply with UL1950, IEC950 safety regulations

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range)

输出特性

Output Characteristics

- 稳压精度: $\pm 1\%$
(Regulated Voltage Accuracy)
- 电压调整率: $\pm 0.2\%$
(Line Regulation)
- 负载调整率: $\pm 0.5\%$
(Load Regulation)
- 温度变化率: $\pm 0.02\% / ^\circ\text{C}$
(Temperature Coefficient)
- 交叉调节率: $\pm 3\%$
(Cross Regulation)
(主路 30%-100% 负载, 辅路 80% 负载)
(Main load 30%-100%, Aux load 80%)
- 电流限制点: 120% (Typ)
(Output Current Limiting)
- 瞬态响应: 400 μs
(Transient Response)

一般特性

General Characteristics

- 工作频率 (典型值): 160-200 KHz
(Switching Frequency)
- 隔离电阻: 200 (Typ) $\text{M}\Omega$
(Isolation Resistance)
- MTBF: >500000 hrs

绝缘强度 (Insulation Voltage)

- 输入 - 输出: > 1500 V_{AC}/1min (漏电流 < 5mA)
(Input-Output)
- 输入 - 外壳: > 1500 V_{AC}/1min (漏电流 < 5mA)
(Input-Case)
- 输出 - 外壳: > 500 V_{DC}/1min
(Output-Case)

环境特性 (Environmental Characteristics)

- 工作壳温: 工业品 -25~+85 $^\circ\text{C}$
(Operation Temperature) (Industry)
- 军 I (Military I) -40~+85 $^\circ\text{C}$
- 军 II (Military II) -55~+85 $^\circ\text{C}$
- 存储温度: 工业品 -45~+105 $^\circ\text{C}$
(Storage Temperature) (Industry)
- 军品 (Military) -55~+105 $^\circ\text{C}$

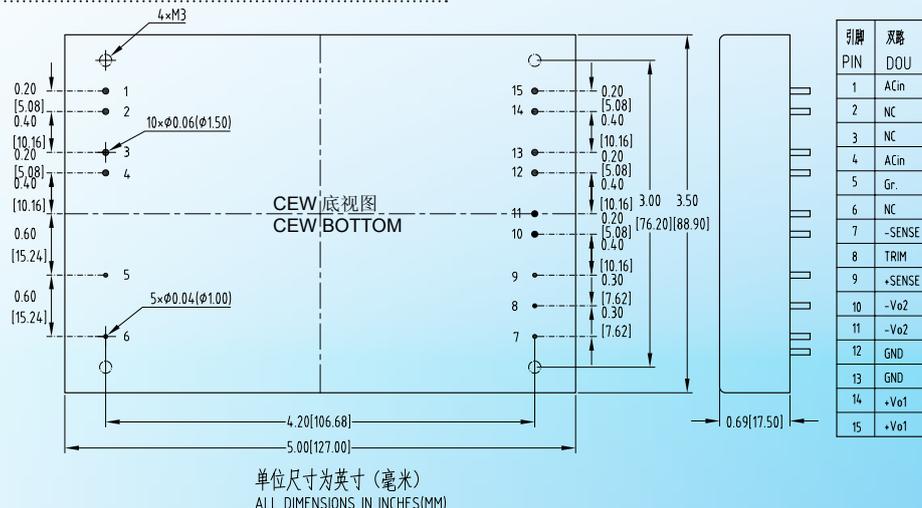
热阻特性

Thermal Characteristics

- 冷却方式: 热阻
(Cooling) (Thermal Resistance)
- 自然风冷: 2.50 $^\circ\text{C} / \text{W}$
(Breeze of Nature)
- 0.5M/S: 2.09 $^\circ\text{C} / \text{W}$
- 1M/S: 1.56 $^\circ\text{C} / \text{W}$
- 1.5M/S: 1.13 $^\circ\text{C} / \text{W}$
- 2M/S: 0.94 $^\circ\text{C} / \text{W}$

尺寸图

Dimensioned Drawing



AC/DC CEW 系列

型号

Models

| 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models | |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|-----------------|-----------------|
| 双 路 | 220 | 176-264 | ±05 | 5/5 | 50/50 | 82% | CEW50-220D05 |
| | 220 | 176-264 | 05, -12 | 3/2.92 | 50/120 | 82% | CEW50-220D05-12 |
| | 220 | 176-264 | 05, -24 | 2/1.67 | 50/200 | 82% | CEW50-220D05-24 |
| | 220 | 176-264 | 12, -05 | 2.92/3 | 120/50 | 83% | CEW50-220D12-05 |
| | 220 | 176-264 | ±12 | 2/2 | 120/120 | 83% | CEW50-220D12 |
| | 220 | 176-264 | 24, -05 | 1.67/2 | 200/50 | 83% | CEW50-220D24-05 |
| | 220 | 176-264 | 24, -12 | 1.25/1.67 | 200/120 | 83% | CEW50-220D24-12 |
| | 220 | 176-264 | 05, -12 | 4/3.33 | 50/120 | 82% | CEW60-220D05-12 |
| | 220 | 176-264 | 05, -24 | 2/2 | 50/200 | 83% | CEW60-220D05-24 |
| | 220 | 176-264 | 12, -05 | 3.33/4 | 120/50 | 83% | CEW60-220D12-05 |
| | 220 | 176-264 | ±12 | 2.5/2.5 | 120/120 | 83% | CEW60-220D12 |
| | 220 | 176-264 | 24, -05 | 2/2 | 200/50 | 83% | CEW60-220D24-05 |
| | 220 | 176-264 | 24, -12 | 1.67/1.67 | 200/120 | 83% | CEW60-220D24-12 |
| | 220 | 176-264 | 05, -12 | 4/4.58 | 50/120 | 82% | CEW75-220D05-12 |
| | 220 | 176-264 | 05, -24 | 3/2.5 | 50/200 | 83% | CEW75-220D05-24 |
| | 220 | 176-264 | 12, -05 | 4.58/4 | 120/50 | 83% | CEW75-220D12-05 |
| | 220 | 176-264 | ±12 | 3.13/3.13 | 120/120 | 83% | CEW75-220D12 |
| | 220 | 176-264 | 12, -24 | 2/2 | 120/200 | 83% | CEW75-220D12-24 |
| | 220 | 176-264 | 24, -05 | 3/2.5 | 200/50 | 83% | CEW75-220D24-05 |
| | 220 | 176-264 | 24, -12 | 2/2 | 200/120 | 83% | CEW75-220D24-12 |
| 220 | 176-264 | 24, -24 | 1.56/1.56 | 200/200 | 83% | CEW75-220D24-24 | |

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

AC/DC CRAA 系列

宽电压输入范围
金属外壳
高隔离电压

5-10W



物理特性

结构尺寸: 62*45*25mm
重量: 0.14g

特性

Features

- 宽电压输入范围 Wide range of input voltage
- 输入宽频噪声滤波器 Wideband noise filter of input
- 快速动态响应 Fast dynamic response
- 引出脚功能兼容 Pin function compatible
- 外型设计美观 Attractive outline design
- 符合 UL1950、IEC950 安全规程 Comply with UL1950, IEC950 safety regulations

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range) 85-264V_{AC}

输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 瞬态响应: (Transient Response) | 400 μs |

一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ) MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|--|
| 输入 - 输出: (Input-Output) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输入 - 外壳: (Input-Case) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} /1min |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

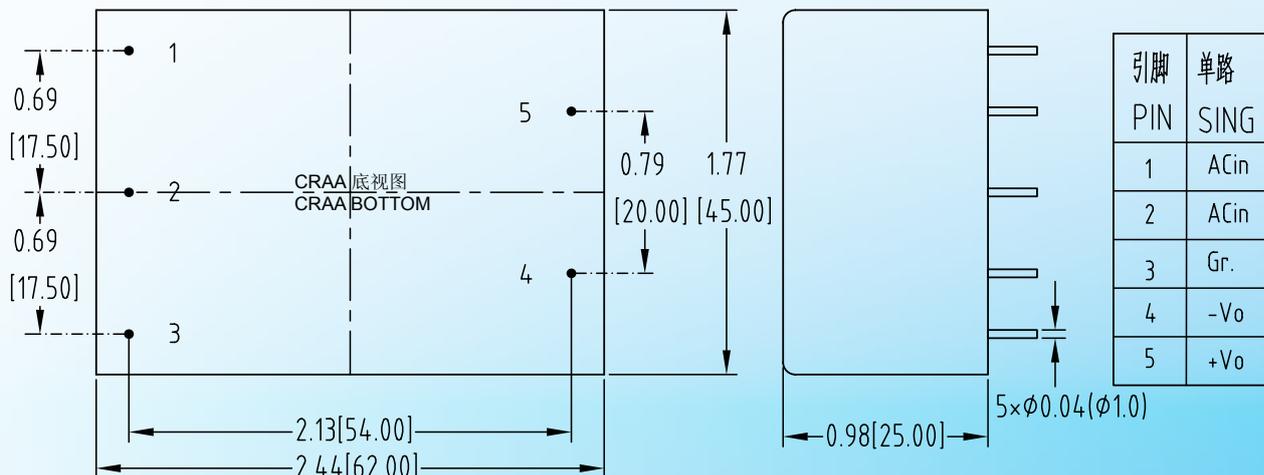
热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 5. 80°C /W |
| 0. 5M/S | 4. 30°C /W |
| 1M/S | 2. 80°C /W |
| 1. 5M/S | 2. 40°C /W |
| 2M/S | 1. 90°C /W |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

AC/DC CRAA 系列

型号

Models

| 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|-----------------|
| 220 | 176-264 | 3.3 | 1.52 | 50 | 82% | CRAA05-220S3.3 |
| 220 | 176-264 | 05 | 1 | 50 | 82% | CRAA05-220S05 |
| 220 | 176-264 | 09 | 0.56 | 90 | 82% | CRAA05-220S09 |
| 220 | 176-264 | 12 | 0.42 | 120 | 82% | CRAA05-220S12 |
| 220 | 176-264 | 13.8 | 0.36 | 120 | 82% | CRAA05-220S13.8 |
| 220 | 176-264 | 15 | 0.33 | 150 | 82% | CRAA05-220S15 |
| 220 | 176-264 | 18 | 0.28 | 200 | 82% | CRAA05-220S18 |
| 220 | 176-264 | 20 | 0.25 | 200 | 83% | CRAA05-220S20 |
| 220 | 176-264 | 24 | 0.21 | 200 | 83% | CRAA05-220S24 |
| 220 | 176-264 | 3.3 | 2.42 | 50 | 82% | CRAA08-220S3.3 |
| 220 | 176-264 | 05 | 1.6 | 50 | 82% | CRAA08-220S05 |
| 220 | 176-264 | 09 | 0.89 | 90 | 82% | CRAA08-220S09 |
| 220 | 176-264 | 12 | 0.67 | 120 | 82% | CRAA08-220S12 |
| 220 | 176-264 | 13.8 | 0.58 | 120 | 82% | CRAA08-220S13.8 |
| 220 | 176-264 | 15 | 0.53 | 150 | 82% | CRAA08-220S15 |
| 220 | 176-264 | 18 | 0.44 | 200 | 82% | CRAA08-220S18 |
| 220 | 176-264 | 20 | 0.4 | 200 | 83% | CRAA08-220S20 |
| 220 | 176-264 | 24 | 0.33 | 200 | 83% | CRAA08-220S24 |
| 220 | 176-264 | 3.3 | 3.03 | 50 | 82% | CRAA10-220S3.3 |
| 220 | 176-264 | 05 | 2 | 50 | 82% | CRAA10-220S05 |
| 220 | 176-264 | 09 | 1.11 | 90 | 82% | CRAA10-220S09 |
| 220 | 176-264 | 12 | 0.83 | 120 | 82% | CRAA10-220S12 |
| 220 | 176-264 | 13.8 | 0.72 | 120 | 82% | CRAA10-220S13.8 |
| 220 | 176-264 | 15 | 0.67 | 150 | 82% | CRAA10-220S15 |
| 220 | 176-264 | 18 | 0.56 | 200 | 82% | CRAA10-220S18 |
| 220 | 176-264 | 20 | 0.5 | 200 | 83% | CRAA10-220S20 |
| 220 | 176-264 | 24 | 0.42 | 200 | 83% | CRAA10-220S24 |
| 220 | 85-264 | 3.3 | 1.52 | 50 | 82% | CRAA05-220S3.3 |
| 220 | 85-264 | 05 | 1 | 50 | 82% | CRAA05-220S05 |
| 220 | 85-264 | 09 | 0.56 | 90 | 82% | CRAA05-220S09 |
| 220 | 85-264 | 12 | 0.42 | 120 | 82% | CRAA05-220S12 |
| 220 | 85-264 | 13.8 | 0.36 | 120 | 82% | CRAA05-220S13.8 |
| 220 | 85-264 | 15 | 0.33 | 150 | 82% | CRAA05-220S15 |
| 220 | 85-264 | 18 | 0.28 | 200 | 82% | CRAA05-220S18 |
| 220 | 85-264 | 20 | 0.25 | 200 | 83% | CRAA05-220S20 |
| 220 | 85-264 | 24 | 0.21 | 200 | 83% | CRAA05-220S24 |
| 220 | 85-264 | 3.3 | 2.42 | 50 | 82% | CRAA08-220S3.3 |
| 220 | 85-264 | 05 | 1.6 | 50 | 82% | CRAA08-220S05 |
| 220 | 85-264 | 09 | 0.89 | 90 | 82% | CRAA08-220S09 |
| 220 | 85-264 | 12 | 0.67 | 120 | 82% | CRAA08-220S12 |
| 220 | 85-264 | 13.8 | 0.58 | 120 | 82% | CRAA08-220S13.8 |
| 220 | 85-264 | 15 | 0.53 | 150 | 82% | CRAA08-220S15 |
| 220 | 85-264 | 18 | 0.44 | 200 | 82% | CRAA08-220S18 |
| 220 | 85-264 | 20 | 0.4 | 200 | 83% | CRAA08-220S20 |
| 220 | 85-264 | 24 | 0.33 | 200 | 83% | CRAA08-220S24 |
| 220 | 85-264 | 3.3 | 3.03 | 50 | 82% | CRAA10-220S3.3 |
| 220 | 85-264 | 05 | 2 | 50 | 82% | CRAA10-220S05 |
| 220 | 85-264 | 09 | 1.11 | 90 | 82% | CRAA10-220S09 |
| 220 | 85-264 | 12 | 0.83 | 120 | 82% | CRAA10-220S12 |
| 220 | 85-264 | 13.8 | 0.72 | 120 | 82% | CRAA10-220S13.8 |
| 220 | 85-264 | 15 | 0.67 | 150 | 82% | CRAA10-220S15 |
| 220 | 85-264 | 18 | 0.56 | 200 | 82% | CRAA10-220S18 |
| 220 | 85-264 | 20 | 0.5 | 200 | 83% | CRAA10-220S20 |
| 220 | 85-264 | 24 | 0.42 | 200 | 83% | CRAA10-220S24 |

单

路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

AC/DC CRAB 系列

宽电压输入范围
金属外壳
高隔离电压

10-20W



物理特性

结构尺寸: 75*53*25mm
重量: 0.22g

特性

Features

- 宽电压输入范围 Wide range of input voltage
- 输入宽频噪声滤波器 Wideband noise filter of input
- 快速动态响应 Fast dynamic response
- 引出脚功能兼容 Pin function compatible
- 外型设计美观 Attractive outline design
- 符合 UL1950、IEC950 安全规程 Comply with UL1950, IEC950 safety regulations

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range) 85-264V_{AC}

输出特性

Output Characteristics

| | |
|---------------------------------------|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 瞬态响应: (Transient Response) | 400 μs |

一般特性

General Characteristics

| | |
|--------------------------------------|-------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ)MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|--|
| 输入 - 输出: (Input-Output) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输入 - 外壳: (Input-Case) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} /1min |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

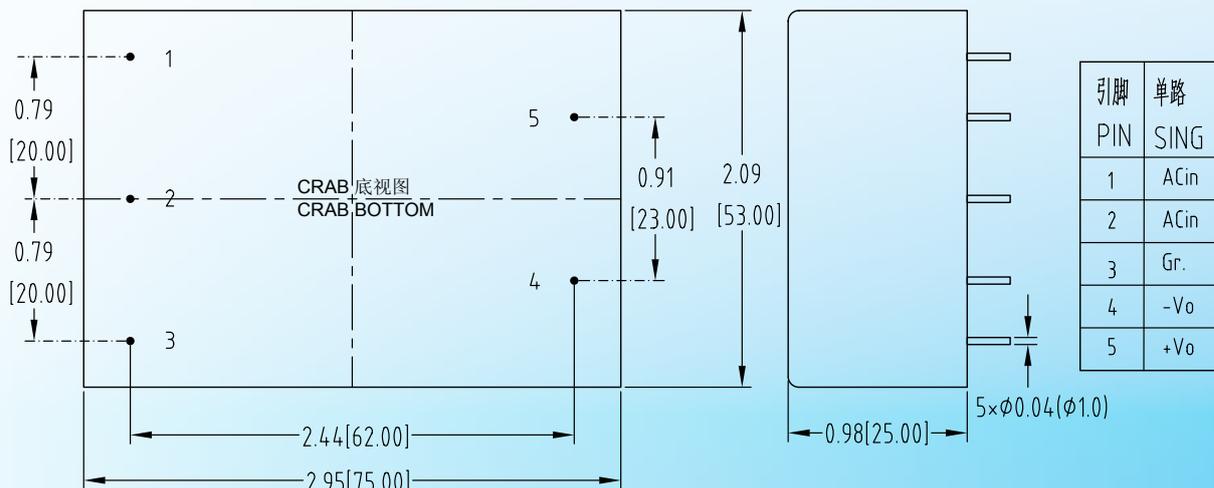
热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 4. 60°C /W |
| 0.5M/S | 3. 40°C /W |
| 1M/S | 2. 30°C /W |
| 1.5M/S | 1. 70°C /W |
| 2M/S | 1. 20°C /W |

尺寸图

Dimensioned Drawing



单位尺寸为英寸 (毫米)
ALL DIMENSIONS IN INCHES(MM)

AC/DC CRAB 系列

型号

Models

| 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|-----------------|
| 220 | 176-264 | 09 | 1.11 | 90 | 82% | CRAB10-220S09 |
| 220 | 176-264 | 12 | 0.83 | 120 | 82% | CRAB10-220S12 |
| 220 | 176-264 | 13.8 | 0.72 | 120 | 82% | CRAB10-220S13.8 |
| 220 | 176-264 | 15 | 0.67 | 150 | 82% | CRAB10-220S15 |
| 220 | 176-264 | 18 | 0.56 | 200 | 82% | CRAB10-220S18 |
| 220 | 176-264 | 24 | 0.42 | 200 | 83% | CRAB10-220S24 |
| 220 | 176-264 | 05 | 3 | 50 | 82% | CRAB15-220S05 |
| 220 | 176-264 | 09 | 1.67 | 90 | 82% | CRAB15-220S09 |
| 220 | 176-264 | 12 | 1.25 | 120 | 82% | CRAB15-220S12 |
| 220 | 176-264 | 13.8 | 1.09 | 120 | 82% | CRAB15-220S13.8 |
| 220 | 176-264 | 15 | 1 | 150 | 82% | CRAB15-220S15 |
| 220 | 176-264 | 18 | 0.83 | 200 | 82% | CRAB15-220S18 |
| 220 | 176-264 | 24 | 0.63 | 200 | 83% | CRAB15-220S24 |
| 220 | 176-264 | 05 | 3.60 | 50 | 82% | CRAB18-220S05 |
| 220 | 176-264 | 09 | 2 | 90 | 82% | CRAB18-220S09 |
| 220 | 176-264 | 12 | 1.5 | 120 | 82% | CRAB18-220S12 |
| 220 | 176-264 | 13.8 | 1.3 | 120 | 82% | CRAB18-220S13.8 |
| 220 | 176-264 | 15 | 1.2 | 150 | 82% | CRAB18-220S15 |
| 220 | 176-264 | 18 | 1 | 200 | 82% | CRAB18-220S18 |
| 220 | 176-264 | 24 | 0.75 | 200 | 83% | CRAB18-220S24 |
| 220 | 176-264 | 05 | 4 | 50 | 82% | CRAB20-220S05 |
| 220 | 176-264 | 09 | 2.22 | 90 | 82% | CRAB20-220S09 |
| 220 | 176-264 | 12 | 1.67 | 120 | 82% | CRAB20-220S12 |
| 220 | 176-264 | 13.8 | 1.45 | 120 | 82% | CRAB20-220S13.8 |
| 220 | 176-264 | 15 | 1.33 | 150 | 82% | CRAB20-220S15 |
| 220 | 176-264 | 18 | 1.11 | 200 | 82% | CRAB20-220S18 |
| 220 | 176-264 | 24 | 0.83 | 200 | 83% | CRAB20-220S24 |
| 220 | 176-264 | 09 | 2.78 | 90 | 82% | CRAB25-220S09 |
| 220 | 176-264 | 12 | 2.08 | 120 | 82% | CRAB25-220S12 |
| 220 | 176-264 | 13.8 | 1.81 | 120 | 82% | CRAB25-220S13.8 |
| 220 | 176-264 | 15 | 1.67 | 150 | 82% | CRAB25-220S15 |
| 220 | 176-264 | 18 | 1.39 | 200 | 82% | CRAB25-220S18 |
| 220 | 176-264 | 24 | 1.04 | 200 | 83% | CRAB25-220S24 |
| 220 | 85-264 | 05 | 3 | 50 | 82% | CRAB15-220S05 |
| 220 | 85-264 | 09 | 1.67 | 90 | 82% | CRAB15-220S09 |
| 220 | 85-264 | 12 | 1.25 | 120 | 82% | CRAB15-220S12 |
| 220 | 85-264 | 13.8 | 1.09 | 120 | 82% | CRAB15-220S13.8 |
| 220 | 85-264 | 15 | 1 | 150 | 82% | CRAB15-220S15 |
| 220 | 85-264 | 18 | 0.83 | 200 | 82% | CRAB15-220S18 |
| 220 | 85-264 | 24 | 0.63 | 200 | 83% | CRAB15-220S24 |
| 220 | 85-264 | 05 | 3.60 | 50 | 82% | CRAB18-220S05 |
| 220 | 85-264 | 09 | 2 | 90 | 82% | CRAB18-220S09 |
| 220 | 85-264 | 12 | 1.5 | 120 | 82% | CRAB18-220S12 |
| 220 | 85-264 | 13.8 | 1.3 | 120 | 82% | CRAB18-220S13.8 |
| 220 | 85-264 | 15 | 1.2 | 150 | 82% | CRAB18-220S15 |
| 220 | 85-264 | 18 | 1 | 200 | 82% | CRAB18-220S18 |
| 220 | 85-264 | 24 | 0.75 | 200 | 83% | CRAB18-220S24 |
| 220 | 85-264 | 05 | 4 | 50 | 82% | CRAB20-220S05 |
| 220 | 85-264 | 09 | 2.22 | 90 | 82% | CRAB20-220S09 |
| 220 | 85-264 | 12 | 1.67 | 120 | 82% | CRAB20-220S12 |
| 220 | 85-264 | 13.8 | 1.45 | 120 | 82% | CRAB20-220S13.8 |
| 220 | 85-264 | 15 | 1.33 | 150 | 82% | CRAB20-220S15 |
| 220 | 85-264 | 18 | 1.11 | 200 | 82% | CRAB20-220S18 |
| 220 | 85-264 | 24 | 0.83 | 200 | 83% | CRAB20-220S24 |

单
路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.

AC/DC CRAC 系列

宽电压输入范围
金属外壳
高隔离电压
双路独立稳压

20-30W



物理特性

结构尺寸: 80*56*25mm
重量: 0.2Kg

特性

Features

- 宽电压输入范围 Wide range of input voltage
- 输入宽频噪声滤波器 Wideband noise filter of input
- 快速动态响应 Fast dynamic response
- 引出脚功能兼容 Pin function compatible
- 外型设计美观 Attractive outline design
- 符合 UL1950、IEC950 安全规程 Comply with UL1950, IEC950 safety regulations

输入特性

Input Characteristics

电压范围: **AC-DC** 220V_{AC}(Normal) 176-264V_{AC}
(Voltage Range)

输出特性

Output Characteristics

| | |
|--|-------------|
| 稳压精度: (Regulated Voltage Accuracy) | ± 1% |
| 电压调整率: (Line Regulation) | ± 0.2% |
| 负载调整率: (Load Regulation) | ± 0.5% |
| 温度变化率: (Temperature Coefficient) | ± 0.02% /°C |
| 交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%) | ±3% |
| 瞬态响应: (Transient Response) | 400 μs |

一般特性

General Characteristics

| | |
|--------------------------------------|--------------|
| 工作频率 (典型值): (Switching Frequency) | 200 KHz |
| 隔离电阻: (Isolation Resistance) | 200 (Typ) MΩ |
| MTBF: | >500000 hrs |

绝缘强度 (Insulation Voltage)

| | |
|----------------------------|--|
| 输入 - 输出: (Input-Output) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输入 - 外壳: (Input-Case) | > 1500 V _{AC} /1min (漏电流 < 5mA) |
| 输出 - 外壳: (Output-Case) | > 500 V _{DC} /1min |

环境特性 (Environmental Characteristics)

| | | |
|----------------------------------|-----------------------|------------|
| 工作壳温: (Operation Temperature) | 工业品 (Industry) | -25~+85°C |
| | 军 I (Military I) | -40~+85°C |
| | 军 II (Military II) | -55~+85°C |
| 存储温度: (Storage Temperature) | 工业品 (Industry) | -45~+105°C |
| | 军品 (Military) | -55~+105°C |

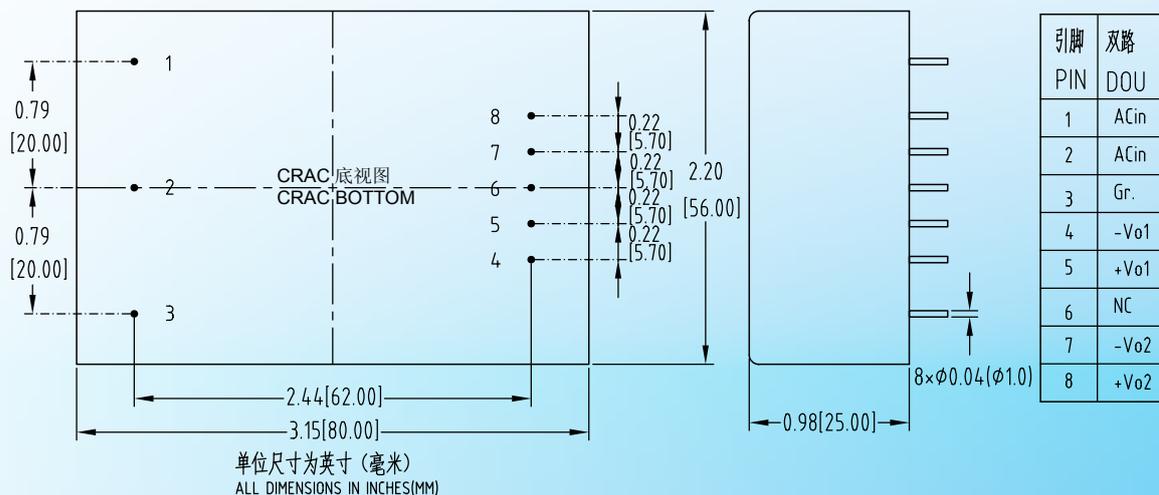
热阻特性

Thermal Characteristics

| | |
|-----------------------------|----------------------------|
| 冷却方式: (Cooling) | 热阻 (Thermal Resistance) |
| 自然风冷: (Breeze of Nature) | 4. 20°C /W |
| 0.5M/S | 3. 10°C /W |
| 1M/S | 2. 10°C /W |
| 1.5M/S | 1. 50°C /W |
| 2M/S | 1. 00°C /W |

尺寸图

Dimensioned Drawing



AC/DC CRAC 系列

型号

Models

| 输入电压 (Vac) Input Voltage | 输入电压 (范围) Input Voltage<Range> | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output Current | 纹波 pk-pk (mV) Ripple and noise | 效率 (Typ) Efficiency | 型号 Models | |
|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|------------------|------------------|
| 双 路 | 220 | 176-264 | 05&05 | 2&2 | 50&50 | 82% | CRAC20-220D05&05 |
| | 220 | 176-264 | 05&12 | 1&1.25 | 50&120 | 82% | CRAC20-220D05&12 |
| | 220 | 176-264 | 05&24 | 1&0.63 | 50&200 | 82% | CRAC20-220D05&24 |
| | 220 | 176-264 | 12&05 | 1.25&1 | 120&50 | 83% | CRAC20-220D12&05 |
| | 220 | 176-264 | 12&12 | 0.83&0.83 | 120&120 | 83% | CRAC20-220D12&12 |
| | 220 | 176-264 | 24&05 | 0.63&1 | 200&50 | 83% | CRAC20-220D24&05 |
| | 220 | 176-264 | 24&12 | 0.42&0.83 | 200&120 | 83% | CRAC20-220D24&12 |
| | 220 | 176-264 | 05&12 | 1&1.67 | 50&120 | 82% | CRAC25-220D05&12 |
| | 220 | 176-264 | 05&24 | 1&0.83 | 50&200 | 83% | CRAC25-220D05&24 |
| | 220 | 176-264 | 12&05 | 1.67&1 | 120&50 | 83% | CRAC25-220D12&05 |
| | 220 | 176-264 | 12&12 | 1&1 | 120&120 | 83% | CRAC25-220D12&12 |
| | 220 | 176-264 | 24&05 | 0.83&1 | 200&50 | 83% | CRAC25-220D24&05 |
| | 220 | 176-264 | 24&12 | 0.63&0.83 | 200&120 | 83% | CRAC25-220D24&12 |
| | 220 | 176-264 | 05&12 | 2&1.67 | 50&120 | 82% | CRAC30-220D05&12 |
| | 220 | 176-264 | 05&24 | 2&0.83 | 50&200 | 83% | CRAC30-220D05&24 |
| | 220 | 176-264 | 12&05 | 1.67&2 | 120&50 | 83% | CRAC30-220D12&05 |
| | 220 | 176-264 | 12&12 | 1.25&1.25 | 120&120 | 83% | CRAC30-220D12&12 |
| | 220 | 176-264 | 12&24 | 0.83&0.83 | 120&200 | 83% | CRAC30-220D12&24 |
| | 220 | 176-264 | 24&05 | 0.83&2 | 200&50 | 83% | CRAC30-220D24&05 |
| | 220 | 176-264 | 24&12 | 0.83&0.83 | 200&120 | 83% | CRAC30-220D24&12 |
| 220 | 176-264 | 24&24 | 0.63&0.63 | 200&200 | 83% | CRAC30-220D24&24 | |

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选型说明 Selection Guide

1. 模块电源

CLZ 150 - 48 S 05 - J
1 2 3 4 5 6

1- 系列号

2- 输出功率：单路输出功率或多路输出功率总和；

3- 输入电压

4- 输出路数：S - 单路；D- 双路；T- 三路；Q- 四路；F- 五路；F1- 六路；

5- 输出电压

a) 当输出为双路（D）时，如果为正负输出，此项代表正负输出电压值；如果两路输出不同，第一个电压值为第一路输出（Vo1），第二个电压值为第二路输出（Vo2）；不共地用“&”联接两个电压值；

b) 当输出为三路（T）时，如果为正负，加一正输出，第一项为正负电压值；第二项为正输出值；如果三路输出不同，此处三项一次为三个电压值；

四路及以上输出的情况与三路输出相同或只标明路数再做详细解释

6- 辅助说明

J- 军品；K- 宽范围；S- 安装散热器

附加说明：

(1) 若把 AC/DC 产品型号转换为相对应的 DC/DC 型号，可将“系列号”最后一个字母 A 改成 F。

如原交流输入电源模块 CDA120-220S24 转换直流输入的型号应该是：CDF120-220S24

(2) 若低纹波输出的模块电源，命名方法只需在“系列号”后加“-X”。如：CCA-X35-220S07

2. 箱体式电源：

CL 19 A 2 A 400 -220S12
1 2 3 4 5 6 7

1- 系列号前缀

2- 机箱宽度：定制尺寸“19”为标准 U 箱电源

3- 机箱深度 A—350 ~ 400；B—400 ~ 450；C—450 ~ 500；D—500；X—客户定制尺寸

4- 机箱高度：客户定制高度，对于 U 箱 1—1U；2—2U；3—3U（1U=44.45mm）

5- 输入交流或直流方式：A—交流 Z—直流

6- 输出功率：电源单路输出功率或多路输出功率的总和；

7- 与模块电源命名方法第 3 ~ 6 部分相同



选型说明 Selection Guide

1. Module Power Supply Naming

CLZ 150 - 48 S 05 - J
1 2 3 4 5 6

1 Series Number

2 Output Power: Single output loop power or the power sum of output circuits;

3 Input Voltage

4 Output Circuits: S-Single; D-Double; T-Triple; Q-Quad; F-Five; F1-Six

5 Output Voltage

For double output, if it is positive or negative, this part refers to positive or negative voltage value, if both output are different, the first voltage refers to the first output(Vo1), and the second voltage refers to the second output(Vo2). Using symbol "&" link up two voltage values when the output circuits are isolation each other.

For triple output, if it is positive or negative output plus a positive output, then first part refers to positive or negative voltage value, the second part refers to positive; if all three are different, then three parts refers to three kind of voltage value in turn.

Quad and more outputs are same with triple output.

6 Auxiliary Notes: J-Military; K- Extension Input-Voltage; S-Heat Sink Installed

Attachment:

(1) Properly transition the model of AC/DC into DC/DC, using the letter "F" replacing "A" . For example AC/DC model is "CDA120-220S24" , correspond with the DC/DC model is: CDF120-220S24

(2) For the output at ultra-low ripple, insert "-X" between the series number and output power value.

2. Chassis Power Supply Naming:

CL 19 A 2 A 400 -220S12
1 2 3 4 5 6 7

1 Series prefix

2 Width: Customize size; "19" is 19 inch standard chassis

3 Depth: A—350~400; B—400~450; C—450~500; D- 500; X—Customize size

4 Height: Customize size, for 19 inch chassis is under 1—1U; 2—2U; 3—3U (1U=44.45mm)

5 Input Volt at Alternation or Direct: A—Alternative current Z—Direct current

6 Output power: Single loop output power or the power sum of output circuits.

7 Same as Module Power Supply Series part 3-6

本公司承诺严格按照
(GJB9001A-2001)
国军标质量管理体系
的要求，为军队及普
通客户专门设计、生
产特殊要求与规格的
电源产品。

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