

DC/DC MZK 系列

单路大功率传导散热

150-300W



物理特性

结构尺寸: 129*79*25.5mm
重量: 0.39Kg

特性

Features

- 输入 π 型滤波 π type input filter
- 大电流, 大功率输出 High output current and power
- 功率密度可达 28W/in³ Up to 28W/in³ power density
- 快速动态响应 Fast dynamic response
- 引出脚功能兼容 Pin function compatible
- 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}

反压保护: 应用时外接电熔丝
(Voltage Range) (External Fuse)

输出特性

Output Characteristics

稳压精度: (Regulated Voltage Accuracy)	$\pm 1\%$
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

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 $^\circ\text{C}$
存储温度: (Storage Temperature)	军 II (Military II)	-55~+85 $^\circ\text{C}$
	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)	2.10 $^\circ\text{C} / \text{W}$
0.5M/S	1.60 $^\circ\text{C} / \text{W}$
1M/S	1.30 $^\circ\text{C} / \text{W}$
1.5M/S	1.00 $^\circ\text{C} / \text{W}$
2M/S	0.80 $^\circ\text{C} / \text{W}$

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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	12	12.5	30	82%	MZK-X150-12S12
12	9-18	12	12.5	120	82%	MZK150-12S12
12	9-18	15	10	150	82%	MZK150-12S15
12	9-18	24	6.25	200	83%	MZK150-12S24
12	9-18	48	3.13	300	85%	MZK150-12S48
12	9-18	12	16.67	30	82%	MZK-X200-12S12
12	9-18	12	16.67	120	82%	MZK200-12S12
12	9-18	15	13.33	150	82%	MZK200-12S15
12	9-18	24	8.33	200	83%	MZK200-12S24
12	9-18	48	4.17	300	85%	MZK200-12S48
12	9-18	12	20.83	120	82%	MZK250-12S12
12	9-18	13.8	18.12	120	82%	MZK250-12S13.8
12	9-18	15	16.67	150	82%	MZK250-12S15
12	9-18	24	10.42	200	83%	MZK250-12S24
12	9-18	48	5.21	300	85%	MZK250-12S48
24	18-36	12	12.5	30	82%	MZK-X150-24S12
24	18-36	12	12.5	120	82%	MZK150-24S12
24	18-36	15	10	150	82%	MZK150-24S15
24	18-36	24	6.25	200	83%	MZK150-24S24
24	18-36	28	5.36	300	85%	MZK150-24S28
24	18-36	36	4.17	300	85%	MZK150-24S36
24	18-36	48	3.13	300	85%	MZK150-24S48
24	18-36	12	16.67	120	82%	MZK200-24S12
24	18-36	13.8	14.49	120	82%	MZK200-24S13.8
24	18-36	15	13.33	150	82%	MZK200-24S15
24	18-36	24	8.33	200	83%	MZK200-24S24
24	18-36	48	4.17	300	85%	MZK200-24S48
24	18-36	12	20.83	30	82%	MZK-X250-24S12
24	18-36	12	20.83	120	82%	MZK250-24S12
24	18-36	15	16.67	150	82%	MZK250-24S15
24	18-36	24	10.42	200	83%	MZK250-24S24
24	18-36	28	8.93	300	85%	MZK250-24S28
24	18-36	36	6.94	200	83%	MZK250-24S36
24	18-36	48	5.21	300	85%	MZK250-24S48
24	18-36	12	25	120	82%	MZK300-24S12
24	18-36	13.8	22	120	82%	MZK300-24S13.8
24	18-36	15	20	150	82%	MZK300-24S15
24	18-36	24	12.5	200	83%	MZK300-24S24
24	18-36	28	10.71	200	83%	MZK300-24S28
24	18-36	48	6.25	300	85%	MZK300-24S48
48	36-72	12	12.5	120	82%	MZK150-48S12
48	36-72	13.8	10.87	120	82%	MZK150-48S13.8
48	36-72	15	10	120	82%	MZK150-48S15
48	36-72	24	6.25	200	83%	MZK150-48S24
48	36-72	48	3.13	300	85%	MZK150-48S48
48	36-72	12	16.67	120	82%	MZK200-48S12
48	36-72	24	8.33	200	83%	MZK200-48S24
48	36-72	48	4.17	300	85%	MZK200-48S48
48	36-72	12	20.83	120	82%	MZK250-48S12
48	36-72	24	10.42	200	83%	MZK250-48S24
48	36-72	48	5.21	300	85%	MZK250-48S48
48	36-72	12	25	120	82%	MZK300-48S12
48	36-72	24	12.5	200	83%	MZK300-48S24

单
路

注：以上选型，型号中功率前面带“X”的为低纹波电源，纹波小于等于 30mV。Above selection, Model selection of the mark with an "X" is low ripple power supply, the ripple is less than 30mV.

■ 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.