

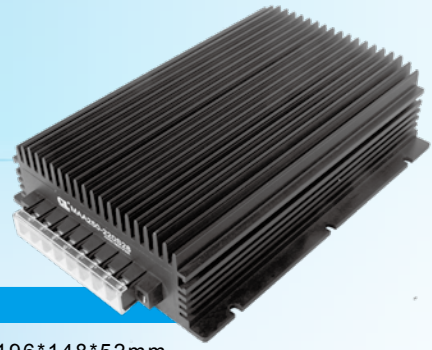
DC/DC MZC 系列

铁路机车专用电源

AC/DC MAA 系列

内置功率因数校正电路

150-300W



物理特性

结构尺寸: 196*148*52mm
重量: MZC:1.8Kg MAA:1.8Kg

特性

Features

- 适用于机车及通信设备 Application for railway and communication
- 输入浪涌抑制电路 Surge suppression circuit of input
- 输入宽频噪声滤波器 Wideband noise filter of input
- 整体散热防辐射设计 Attractive outline and anti-radiation design
- 通过 GB9254、T/B3034 标准 Comply with GB9254、T/B3034 regulations
- 符合 UL1950、IEC950 安全规程 Comply with UL1950,IEC950 safety regulations

MZC 输入特性

MZC 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}
	600V _{DC} (Normal)	400-800V _{DC}

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

MAA 输入特性

MAA Input Characteristics

电压范围: (Voltage Range)	AC-DC 220V _{AC} (Normal)	176-264V _{AC}
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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)	± 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)

	DC-DC	AC-DC
输入-输出: (Input-Output)	> 1500 V _{DC}	> 1500 V _{AC} /1min (漏电流 < 5mA)
输入-外壳: (Input-Case)	> 1050 V _{DC}	> 1500 V _{AC} /1min (漏电流 < 5mA)
输出-外壳: (Output-Case)	> 500 V _{DC}	> 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)	1.01°C/W
0.5M/S	0.84°C/W
1M/S	0.62°C/W
1.5M/S	0.47°C/W
2M/S	0.39°C/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%	MZC-X150-12S12
12	9-18	12	12.5	120	82%	MZC150-12S12
12	9-18	15	10	150	82%	MZC150-12S15
12	9-18	24	6.25	30	83%	MZC-X150-12S24
12	9-18	48	3.13	300	85%	MZC150-12S48
24	18-36	12	16.67	30	82%	MZC-X200-24S12
24	18-36	12	16.67	120	82%	MZC200-24S12
24	18-36	15	13.33	150	82%	MZC200-24S15
24	18-36	24	8.33	200	83%	MZC200-24S24
24	18-36	48	4.17	300	85%	MZC200-24S48
48	36-72	12	20.83	30	82%	MZC-X250-48S12
48	36-72	13.8	18.12	120	82%	MZC250-48S13.8
48	36-72	15	16.67	150	82%	MZC250-48S15
48	36-72	24	10.42	200	83%	MZC250-48S24
48	36-72	48	5.21	300	85%	MZC250-48S48
48	36-72	24	12.50	200	85%	MZC300-48S24
48	36-72	48	6.25	300	85%	MZC300-48S48
110	66-160	12	25	30	82%	MZC-X300-110S12
110	66-160	13.8	22	120	82%	MZC300-110S13.8
300	200-400	15	20	150	82%	MZC300-300S15
300	200-400	24	12.5	200	83%	MZC300-300S24
600	400-800	48	6.25	300	85%	MZC300-600S48
12	9-18	05&05	15&15	30&30	82%	MZC-X150-12D05&05
12	9-18	05&05	15&15	50&50	82%	MZC150-12D05&05
12	9-18	05&12	15&6.25	30&30	83%	MZC-X150-12D05&12
12	9-18	05&12	15&6.25	50&120	83%	MZC150-12D05&12
12	9-18	24&24	3.13&3.13	200&200	83%	MZC150-12D24&24
12	9-18	24&48	3.13&1.6	200&300	84%	MZC150-12D24&48
12	9-18	48&48	1.6&1.6	300&300	84%	MZC150-12D48&48
24	18-36	05&05	20&20	50&50	82%	MZC200-24D05&05
24	18-36	05&12	20&8.3	50&120	83%	MZC200-24D05&12
24	18-36	12&12	8.3&8.3	120&120	83%	MZC200-24D12&12
24	18-36	12&24	8.3&4.2	120&200	83%	MZC200-24D12&24
24	18-36	24&24	4.2&4.2	200&200	83%	MZC200-24D24&24
24	18-36	24&48	4.2&2	200&300	84%	MZC200-24D24&48
24	18-36	48&48	2&2	300&300	84%	MZC200-24D48&48
48	36-72	05&12	10&16.67	50&120	83%	MZC250-48D05&12
48	36-72	12&12	10.4&10.4	120&120	83%	MZC250-48D12&12
48	36-72	12&24	8.33&6.25	120&200	83%	MZC250-48D12&24
48	36-72	24&24	5.2&5.2	200&200	83%	MZC250-48D24&24
48	36-72	24&48	4.17&3.13	200&300	84%	MZC250-48D24&48
48	36-72	48&48	2.6&2.6	300&300	84%	MZC250-48D48&48
110	66-160	05&12	20&16.67	50&120	83%	MZC300-110D05&12
110	66-160	12&12	12.5&12.5	120&120	83%	MZC300-110D12&12
300	200-400	12&24	8.33&8.33	120&200	83%	MZC300-300D12&24
300	200-400	24&24	6.25&6.25	200&200	83%	MZC300-300D24&24
600	400-800	24&48	4.17&4.17	200&300	84%	MZC300-600D24&48
600	400-800	48&48	3.13&3.13	300&300	84%	MZC300-600D48&48
12	9-18	12&28&50	5&2&0.6	120&300&300	80%	MZC150-12T12&28&50
24	18-36	22&12&05	6&10&5	200&120&50	83%	MZC300-24T22&12&05
48	36-72	24&12&12	5&10&5	200&120&120	83%	MZC300-48T24&12&12
110	66-160	24&24&12	5&5&5	200&200&120	83%	MZC300-110T24&24&12
300	200-400	24&24&24	5&5&2.5	200&200&200	83%	MZC300-300T24&24&24

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.

AC/DC MAA 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
单	220	176-264	12	12.5	30	82%	MAA-X150-220S12
	220	176-264	12	12.5	120	82%	MAA150-220S12
	220	176-264	13.8	10.87	30	82%	MAA-X150-220S13.8
	220	176-264	13.8	10.87	130	82%	MAA150-220S13.8
	220	176-264	24	6.25	200	83%	MAA150-220S24
	220	176-264	12	16.67	30	82%	MAA-X200-220S12
	220	176-264	12	16.67	120	82%	MAA200-220S12
	220	176-264	15	13.33	150	82%	MAA200-220S15
	220	176-264	24	8.33	200	83%	MAA200-220S24
	220	176-264	48	4.17	300	85%	MAA200-220S48
路	220	176-264	12	20.83	120	82%	MAA250-220S12
	220	176-264	13.8	18.12	120	82%	MAA250-220S13.8
	220	176-264	15	16.67	150	82%	MAA250-220S15
	220	176-264	24	10.42	30	83%	MAA-X250-220S24
	220	176-264	48	5.21	300	85%	MAA250-220S48
	220	176-264	12	25	30	82%	MAA-X300-220S12
	220	176-264	13.8	22	120	82%	MAA300-220S13.8
	220	176-264	15	20	150	82%	MAA300-220S15
	220	176-264	24	12.5	200	83%	MAA300-220S24
	220	176-264	48	6.25	300	85%	MAA300-220S48
双	220	176-264	05&05	15&15	30&30	82%	MAA-X150-220D05&05
	220	176-264	05&05	15&15	50&50	82%	MAA150-220D05&05
	220	176-264	05&12	15&6.25	30&30	83%	MAA-X150-220D05&12
	220	176-264	05&12	15&6.25	50&120	83%	MAA150-220D05&12
	220	176-264	24&24	3.13&3.13	200&200	83%	MAA150-220D24&24
	220	176-264	24&48	3.13&1.6	200&300	84%	MAA150-220D24&48
	220	176-264	48&48	1.6&1.6	300&300	84%	MAA150-220D48&48
	220	176-264	05&05	20&20	50&50	82%	MAA200-220D05&05
	220	176-264	05&12	20&8.3	30&30	83%	MAA-X200-220D05&12
	220	176-264	05&12	20&8.3	50&120	83%	MAA200-220D05&12
路	220	176-264	12&24	8.3&4.2	120&200	83%	MAA200-220D12&24
	220	176-264	24&24	4.2&4.2	200&200	83%	MAA200-220D24&24
	220	176-264	24&48	4.2&2	200&300	84%	MAA200-220D24&48
	220	176-264	48&48	2&2	300&300	84%	MAA200-220D48&48
	220	176-264	05&12	10&16.67	30&30	83%	MAA-X250-220D05&12
	220	176-264	12&12	10.4&10.4	120&120	83%	MAA250-220D12&12
	220	176-264	12&24	8.33&6.25	120&200	83%	MAA250-220D12&24
	220	176-264	24&24	6.25&6.25	200&200	83%	MAA250-220D24&24
	220	176-264	24&48	4.17&3.13	200&300	84%	MAA250-220D24&48
	220	176-264	48&48	2.6&2.6	300&300	84%	MAA250-220D48&48
三	220	176-264	05&12	20&16.67	50&120	83%	MAA300-220D05&12
	220	176-264	12&12	12.5&12.5	120&120	83%	MAA300-220D12&12
	220	176-264	12&24	8.33&8.33	120&200	83%	MAA300-220D12&24
	220	176-264	24&24	6.25&6.25	200&200	83%	MAA300-220D24&24
	220	176-264	24&48	4.17&4.17	200&300	84%	MAA300-220D24&48
	220	176-264	48&48	3.13&3.13	300&300	84%	MAA300-220D48&48
	220	176-264	12&28&50	5&2&0.6	120&300&500	80%	MAA150-220T12&28&50
	220	176-264	22&12&05	6&10&5	200&120&50	83%	MAA300-220T22&12&05
	220	176-264	24&12&12	5&10&5	200&120&120	83%	MAA300-220T24&12&12
	220	176-264	24&24&12	5&5&5	200&200&120	83%	MAA300-220T24&24&12
四	220	176-264	24&24&24	5&5&2.5	200&200&200	83%	MAA300-220T24&24&24
	220	176-264	36-36&48-48	3/3&0.3/0.3	300/300&300/300	83%	MAA250-220Q36-36&48-48
220	176-264	24-24&48-48	3.5/3.5&0.3/0.3	200/200&300/300	83%	MAA250-220Q24-24&48-48	

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