# MAE 200-300W

MAE 200-300W Series AC DC Isolated Converters Modules




## 特性 Features

- 输入宽频噪声滤波 Broadband noise filter of input
- 输入浪涌电流抑制电路 Surge suppress circuit of input
- 参照UL1950、IEC950安全规程 Refer to UL1950, IEC950 safety regulation
- 外型设计美观 Attractive outline design
- 接线端子出线方式 Terminal connection method

条件：除特殊指定外，所有参数测试条件为：室温25°C,标称输入电压，纯阻性标称负载
Condition: All specifications are tested under the room temperature 25°C, Normal input voltage and pure resistive normal load.

## 输入特性 Input Characteristic

| 额定值 (Rated) | 电压范围 (Voltage Range) | 额定值 (Rated) | 电压范围 (Voltage Range) |
|---|---|---|---|
| 220 VAC (额定值 Rated) | 176-264 VAC | 220 VAC (额定值 Rated) | 90-264 VAC 可选(For option) |

## 输出特性 Output Characteristic

| | |
|---|---|
| 电压精度 (Voltage Set-point Accuracy) | ± 2% |
| 电压调整率(主路) (Line Regulation<main>) | ± 0.5% |
| 负载调整率(主路) (Load Regulation<main>) | ± 0.5% |
| 电流限制点 (Output Current Limiting) | 120%(Typ) |

| | |
|---|---|
| 输出电流 (Output Current) | 3-60A 任选 (For option) |
| 输出电压 (Output Voltage) | 5-48V 任选 (For option) |
| 功率 (Power) | 200-300W |

## 一般特性 General Characteristic

| | | | | | |
|---|---|---|---|---|---|
| 工作频率 (Switching Frequency) | 100-200KHz | | 环境特性 (Environmental Characteristics) | 工作壳温 (Case Temperature) | (工业品) Industry -25 – +85°C<br>(军I) Military I -40 – +85°C<br>(军II) Military II -55 – +85°C |
| 绝缘电阻 (Isolation Resistance) | 200MΩ | | | | |
| 绝缘强度 (Isolation Voltage) | 输入-输出 (Input-Output) | >1500VAC/1min(漏电流<5mA) | | 存储温度 (Storage Temperature) | (工业品) Industry -45 – +105°C<br>(军I) Military I -55 – +105°C |
| | 输入-外壳 (Input-Case) | >1500VAC/1min(漏电流<5mA) | | | |
| | 输出-外壳 (Output-Case) | >500 VDC/1min | | | |
| | 主路-副路 (Main-Vice) | >500 VDC/1min | | | |

## 保护特性 General Characteristic

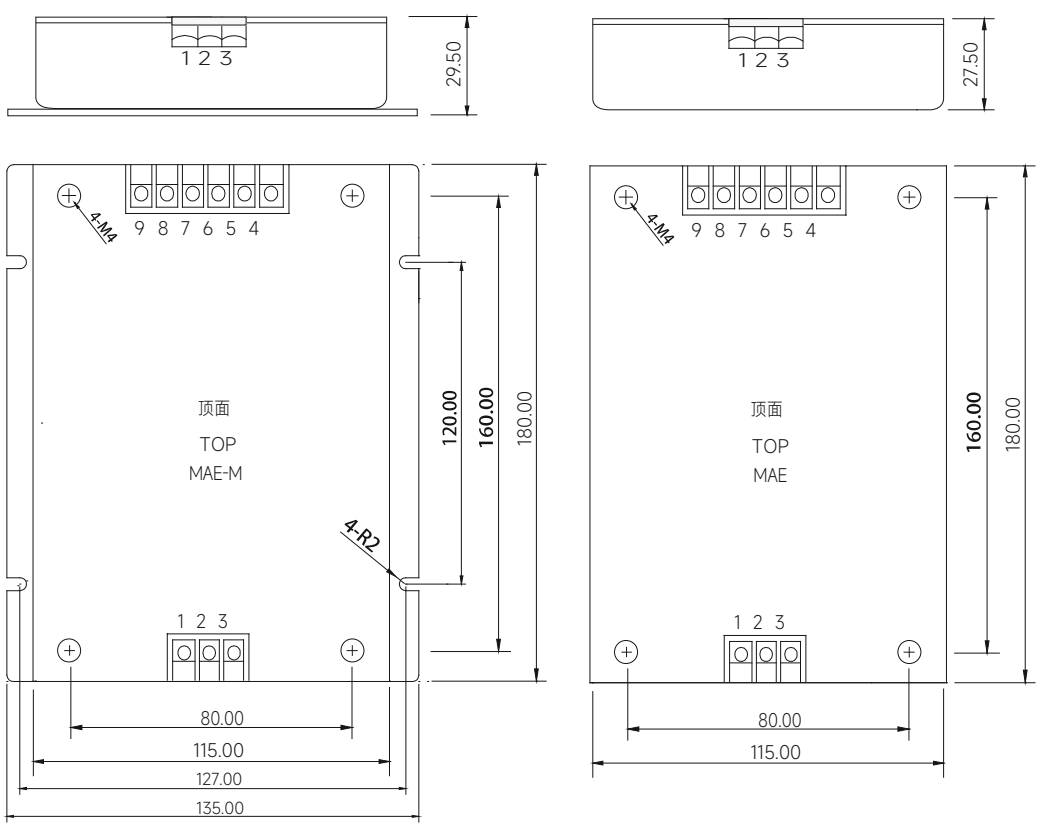
- ★ 输入欠压保护(Input under voltage protection)
- ★ 输入过压保护(Input over voltage protection)
- ★ 输出短路保护(Output short circuit protection)
- ★ 过温保护(Over temperature protection)
- ★ 输出过流保护(Output over current protection)

| | 输入电压(Vac) Input voltage | 输入电压范围（Vac） Input voltage Range | 输出电压（Vdc） Output voltage | 输出电流（A） Output current(A) | 纹波PK-PK（mv） Ripple and noise | 效率(Typ) Efficiency(Typ) | 型号 Models |
|---|---|---|---|---|---|---|---|
| 单路 Single Channels Output | 220 | 176-264 | 05 | 60 | 200 | 90% | MAE300-220S05 |
| | | 176-264 | 12 | 25 | 120 | 91% | MAE300-220S12 |
| | | 176-264 | 24 | 12.5 | 200 | 91% | MAE300-220S24 |
| | | 176-264 | 48 | 6.25 | 300 | 92% | MAE300-220S48 |
| | | 90-264 | 05 | 60 | 200 | 90% | MAE300-220S05-K |
| | | 90-264 | 12 | 25 | 120 | 91% | MAE300-220S12-K |
| | | 90-264 | 24 | 12.5 | 200 | 91% | MAE300-220S24-K |
| | | 90-264 | 48 | 6.25 | 300 | 92% | MAE300-220S48-K |
| 双路 Dual Channels Output | 220 | 176-264 | 05&24 | 15&8 | 100&200 | 81% | MAE275-220D05&24 |
| | | 176-264 | 12&24 | 8.3&8.3 | 120&200 | 83% | MAE300-220D12&24 |
| | | 176-264 | 12&19 | 8.3&10.5 | 120&190 | 83% | MAE300-220D12&19 |
| | | 90-264 | 05&24 | 15&8 | 100&200 | 81% | MAE275-220D05&24-K |
| | | 90-264 | 12&24 | 8.3&8.3 | 120&200 | 83% | MAE300-220D12&24-K |
| | | 90-264 | 12&19 | 8.3&10.5 | 120&190 | 83% | MAE300-220D12&19-K |
| 三路 Three Channels Output | 220 | 176-264 | 05&12&24 | 6&2&5 | 80&120&200 | 83% | MAE180-220T05&12&24 |
| | | 176-264 | 05&12&24 | 6&6&6 | 80&120&200 | 83% | MAE250-220T05&12&24 |
| | | 90-264 | 05&12&24 | 6&2&5 | 80&120&200 | 83% | MAE180-220T05&12&24-K |
| | | 90-264 | 05&12&24 | 6&6&6 | 80&120&200 | 83% | MAE250-220T05&12&24-K |

■说明1：输出纹波噪声（峰值-峰值）采用的是87-88页附录四模块电源测试说明
Output ripple noise (Peak-Peak) is adopted the module power supply test instruction on the page 87-88.

■说明2：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，致电我公司 400-019-3997
Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us +86 400-019-3997

## 外形尺寸以及引脚定义 Mechanical drawing and pin definition




单位(Unit):mm

| 引脚 PIN | 单路 SING | 双路 DOU | 三路 TRIP |
|---|---|---|---|
| 1 | Gr. | Gr. | Gr. |
| 2 | AC(L) | AC(L) | AC(L) |
| 3 | AC(N) | AC(N) | AC(N) |
| 4 | -VO | -VO1 | -VO1 |
| 5 | -VO | +VO1 | +VO1 |
| 6 | -VO | TRIM1 | -VO2 |
| 7 | +VO | TRIM2 | +VO2 |
| 8 | +VO | -VO2 | -VO3 |
| 9 | +VO | +VO2 | +VO3 |

注：马蹄板安装型号尾缀加M