

# DC/DC MZA 系列

引出脚功能兼容，高可靠性，高效率

75-150W



## 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<sub>DC</sub>(Normal) 200-400V<sub>DC</sub>  
(Voltage Range)

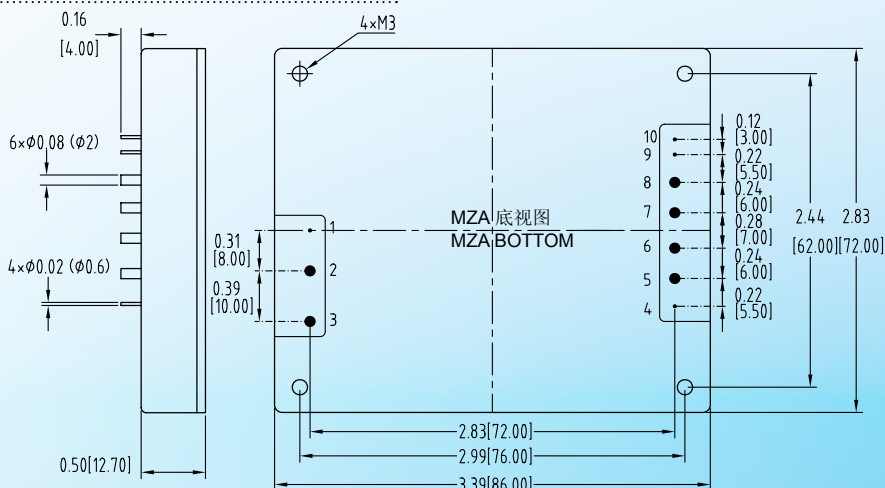
## 输出特性

### Output Characteristics

|                                       |             |
|---------------------------------------|-------------|
| 稳压精度:<br>(Regulated Voltage Accuracy) | ± 1%        |
| 输出电压调节范围:<br>(Line Regulation)        | ± 10%       |
| 电压调整率:<br>(Line Regulation)           | ± 0.2%      |
| 负载调整率:<br>(Load Regulation)           | ± 0.5%      |
| 温度变化率:<br>(Temperature Coefficient)   | ± 0.02% /°C |
| 电流限制点:<br>(Output Current Limiting)   | 120% (Typ)  |
| 瞬态响应:<br>(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: 86\*72\*12.7mm  
重量: 0.25Kg

## 一般特性

### General Characteristics

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

## 绝缘强度 (Insulation Voltage)

|                            |                        |
|----------------------------|------------------------|
| 输入 - 输出:<br>(Input-Output) | > 1500 V <sub>DC</sub> |
| 输入 - 外壳:<br>(Input-Case)   | > 1050 V <sub>DC</sub> |
| 输出 - 外壳:<br>(Output-Case)  | > 500 V <sub>DC</sub>  |

## 环境特性 (Environmental Characteristics)

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

## 热阻特性

### Thermal Characteristics

|                             |                            |                                                  |
|-----------------------------|----------------------------|--------------------------------------------------|
| 冷却方式:<br>(Cooling)          | 热阻<br>(Thermal Resistance) | 热阻 (加散热器)<br>(Thermal Resistance with Heat Sink) |
| 自然风冷:<br>(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                                         |

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

# DC/DC MZA 系列

型 号

Models

|        | 输入电压 (Vdc)<br>Input Voltage | 输入电压 (范围)<br>Input Voltage<Range> | 输出电压 (Vdc)<br>Output Voltage | 输出电流 (A)<br>Output Current | 纹波 pk-pk (mV)<br>Ripple and noise | 效率 (Typ)<br>Efficiency | 型号<br>Models  |
|--------|-----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------|---------------|
| 单<br>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。

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