

50-75W

DC/DC

MZA Series

Features

- Pin fuictim compatible
- full load efficiency up to 88%@5V
- 1500VDC isolation strength
- high efficiency, high reliability
- high power density
- current limiting & short circuit protection, with self recovery



Input Characteristic

| | | |
|--------------------|----------------------|-------------|
| Voltage Range | 24 VDC | 18-36 VDC |
| | 48 VDC | 36-72 VDC |
| | 110 VDC | 80-180 VDC |
| | 300 VDC | 200-400 VDC |
| Reverse Protection | Connect Fuse Outside | |

Output Characteristic

| | |
|----------------------------|------------|
| Voltage Set-point Accuracy | ± 1% |
| Output Voltage Range | ± 10% |
| Line Regulation | ± 0.2% |
| Load Regulation | ± 0.4% |
| Temperature Coefficient | ± 0.01%/°C |
| Output Current Limiting | 120%(Typ) |
| Dynamic Response | 400µs |
| Output Current | 10-30A 任选 |
| Output Voltage | 1.8-48V |
| Power | 75-150W |

General Characteristic

| | | |
|----------------------|----------|-----|
| Switching Frequency | 250 | KHz |
| Isolation Resistance | 200 | M Ω |
| MTBF | >1000000 | h |
| Isolation Voltage | | |
| Input-Output | >1500 | VDC |
| Input-Case | >1050 | VDC |
| Output-Case | >500 | VDC |

Environmental Characteristics

| | |
|---------------------|----------------------------|
| Case Temperature | (Industry) -25 - +85 °C |
| | (Military I) -40 - +85 °C |
| | (Military II) -55 - +85 °C |
| Storage Temperature | (Industry) -45 - +105 °C |
| | (Military) -55 - +105 °C |

Heat Characteristic

| Cooling | Thermal Resistance | With Heat Sink |
|------------------|--------------------|----------------|
| 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 | 2.65°C/W |

Models

| Input voltage (Vdc) | Input Range | Output voltage (Vdc) | Output current (A) | Ripple and noise pk-pk(mv) | Efficiency Typical | Models |
|---------------------|-------------|----------------------|--------------------|----------------------------|--------------------|---------------|
| 24 | 18-36 | 05 | 15 | 50 | 88% | MZA75-24S05 |
| 24 | 18-36 | 12 | 8.33 | 120 | 86% | MZA100-24S12 |
| 24 | 18-36 | 15 | 6.67 | 150 | 89% | MZA100-24S15 |
| 48 | 36-72 | 05 | 15 | 50 | 88% | MZA75-48S05 |
| 48 | 36-72 | 12 | 8.33 | 120 | 86% | MZA100-48S12 |
| 48 | 36-72 | 05 | 30 | 50 | 89% | MZA150-48S05 |
| 110 | 80-180 | 05 | 15 | 50 | 88% | MZA75-110S05 |
| 110 | 80-180 | 12 | 8.33 | 120 | 86% | MZA100-110S12 |
| 110 | 80-180 | 15 | 6.67 | 150 | 89% | MZA100-110S15 |
| 300 | 200-400 | 05 | 15 | 50 | 88% | MZA75-300S05 |
| 300 | 200-400 | 12 | 8.33 | 120 | 86% | MZA100-300S12 |
| 300 | 200-400 | 05 | 30 | 50 | 89% | MZA150-300S05 |

Only typical models listed. If you need other model, please contact us for costum models

Mechanical drawing and pin definition

