

## Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

Low Ripple, Metal Case Shield

Broadband Noise Filter at Input



### Input Characteristic

Default Input Voltage Range (2:1)

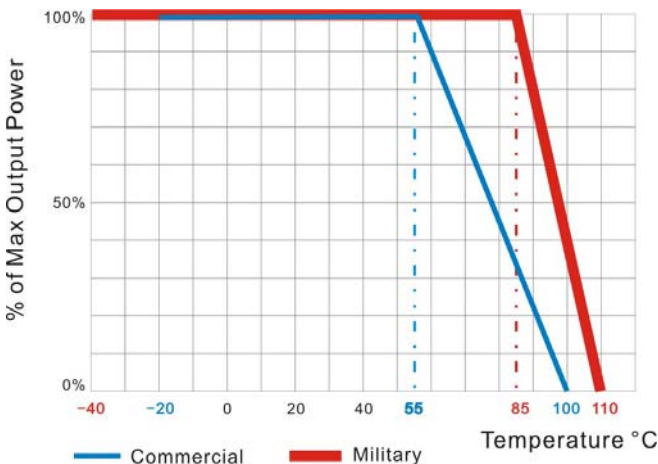
|      |            |
|------|------------|
| 5V   | 4.5~9VDC   |
| 12V  | 9~18VDC    |
| 24V  | 18~36VDC   |
| 48V  | 36~72VDC   |
| 110V | 80~170VDC  |
| 300V | 200~400VDC |

Input Reverse Protection: No

Input Under Voltage Protection: Yes

Output Current: 10~50A

Temperature performance:



### Output Characteristic

|                           |                                  |
|---------------------------|----------------------------------|
| Typical Efficiency:       | 80%                              |
| Ripple p-p:               | 1% of output voltage (MAX 400mV) |
| Load Regulation:          | 0.4%                             |
| Line Regulation :         | 0.2%                             |
| Dynamic response:         | ±4.0/500us%                      |
| Short-circuit Protection: | yes                              |
| Start Time Delay:         | ≤200mS                           |
| Temperature co-efficiency | ±0.01%/°C                        |

### Other info

Switching frequency: 180KHz ± 20 KHz

Operating temperature:

|            |               |
|------------|---------------|
| Industrial | -25°C ~ +55°C |
| Military   | -40°C ~ +85°C |

Max Allowed Case Temperature:

|            |       |
|------------|-------|
| Industrial | 100°C |
| Military   | 110°C |

Storage Temperature:

|            |                |
|------------|----------------|
| Industrial | -40°C ~ +105°C |
| Military   | -55°C ~ +120°C |

Storage Humidity:

20~90%

Isolation Voltage:

|                |                         |
|----------------|-------------------------|
| Input - Output | 1500 VDC ≤ 0.5mA/1min * |
| Input - Case   | 1000Vdc ≤ 0.5mA/1min    |

MTBF:

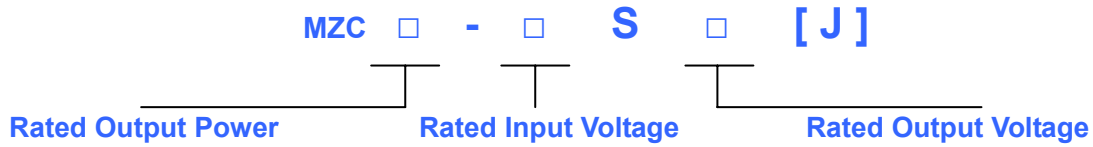
200000Hrs

Case Material:

Metal

Remote ON/OFF: Implement if needed

## Ordering Information:

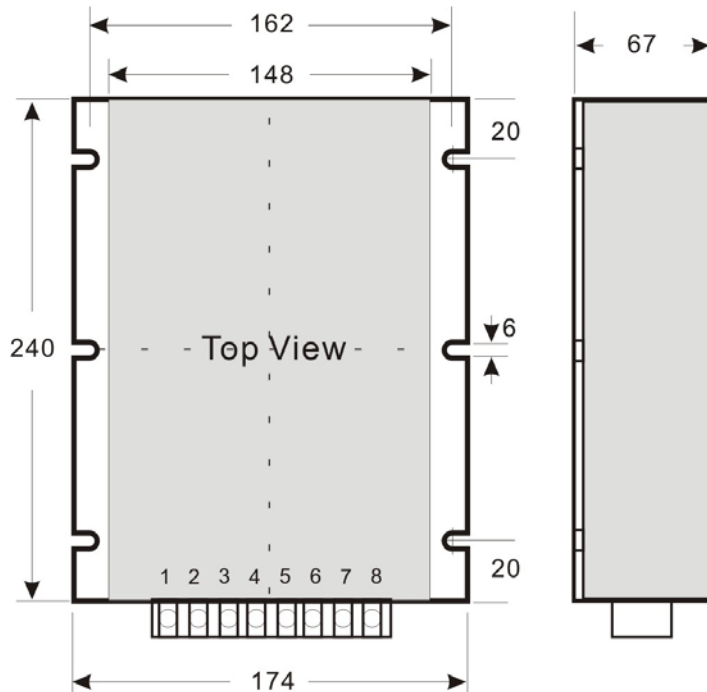


**Note:** S – Single Output  
J – Military

## Example:

| Input             | Output | Max Output Current / Power | Model         |
|-------------------|--------|----------------------------|---------------|
| 12V (18~36VDC)    | 24V    | 20A (480W)                 | CUZ480-12S24  |
| 24V (18~36VDC)    | 12V    | 30A (360W)                 | CUZ360-24S12  |
| 24V (18~36VDC)    | 24V    | 20A (480W)                 | CUZ480-24S24  |
| 12V (9~18VDC)     | 48V    | 10A (480W)                 | CUZ480-12S05  |
| 110V (80~170VDC)  | 24V    | 20A (480W)                 | CUZ480-110S24 |
| 300V (200~400VDC) | 48V    | 10A (480W)                 | CUZ480-300S48 |

## Dimensions:



| Pin | Single |
|-----|--------|
| 1   | Vout + |
| 2   | Vout + |
| 3   | GND    |
| 4   | GND    |
| 5   | Vin +  |
| 6   | Vin +  |
| 7   | Vin -  |
| 8   | Vin -  |

Unit: mm