

## Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

Low Ripple, Metal Case Shield

Broadband Noise Filter at Input



RoHS

CE

### 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 |

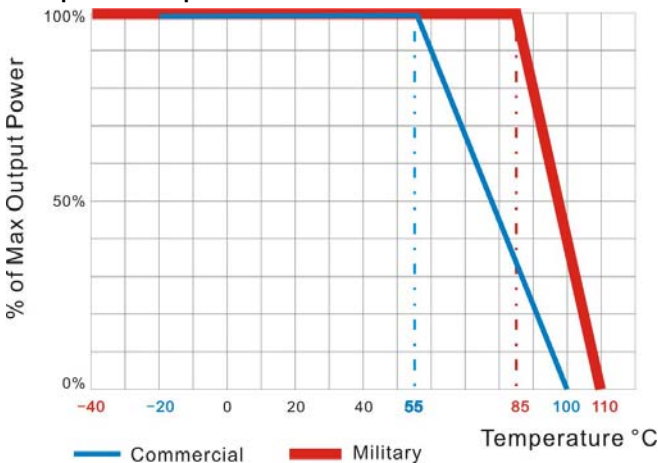
Wide Input Voltage Range (4:1)

|     |          |
|-----|----------|
| 12V | 10~36VDC |
|-----|----------|

Input Reverse Protection: No

Input Under Voltage Protection: Yes

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                          |

### 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:

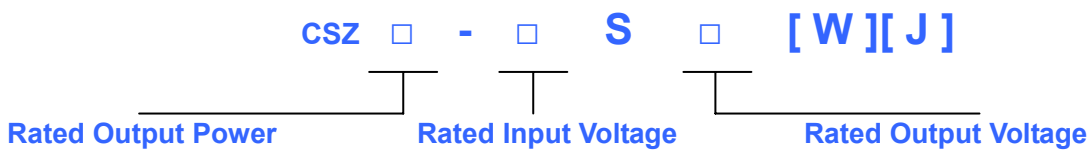
200000Hrs

Case Material:

Metal

Remote ON/OFF: Implement if needed

Ordering Information:

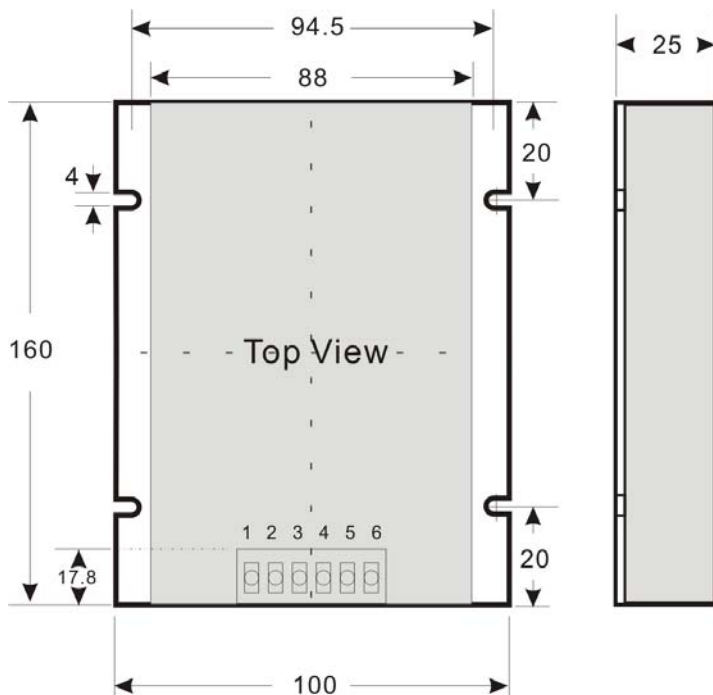


**Note:** S – Single Output  
 J – Military    W - 4:1 input    (Leave it empty for Industrial normal input range)

**Example:**

| Input           | Output | Max Output Current / Power | Model         |
|-----------------|--------|----------------------------|---------------|
| 12V (18~36VDC)  | 24V    | 5A (120W)                  | CSZ120-12S24  |
| 24V (18~36VDC)  | 12V    | 6A (72W)                   | CSZ72-24S12   |
| 24V (18~36VDC)  | 24V    | 5A (120W)                  | CSZ120-24S24  |
| 12V (9~18VDC)   | 5V     | 20A (100W)                 | CSZ100-12S05  |
| 18V (9~36VDC) W | 12V    | 10A (120W)                 | CSZ120-18S12W |

**Dimensions:**



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

Unit: mm