

## 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

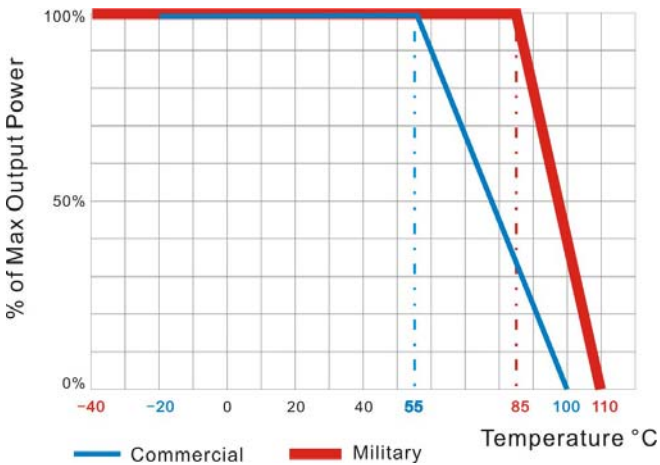
Wide Input Voltage Range (4:1)

12V	10~36VDC
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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
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:

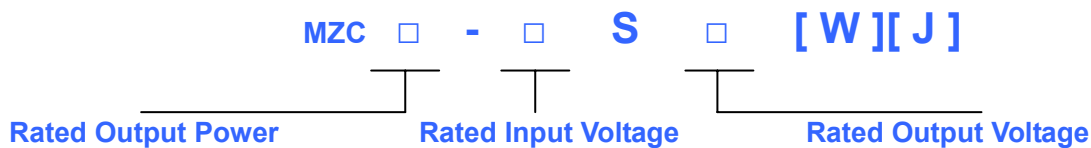
200000Hrs

Case Material:

Metal

Remote ON/OFF: Implement if needed

## Ordering Information:

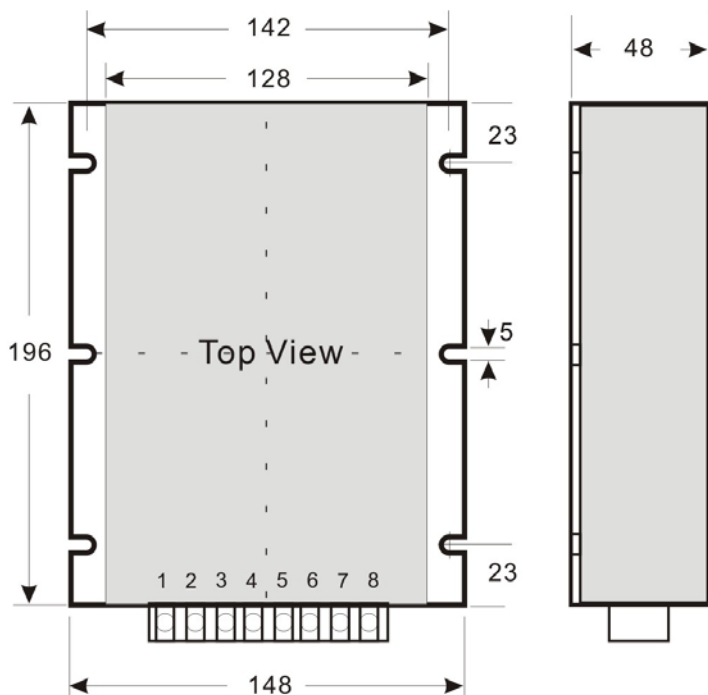


**Note:** S – Single Output  
 J – Military    W - 4:1 input    (Leave it empty for Industrial normal input range)

## Example:

Input	Output	Max Output Current / Power	Model
12V (18~36VDC)	24V	10A (240W)	MZC240-12S24
24V (18~36VDC)	12V	15A (180W)	MZC180-24S12
24V (18~36VDC)	24V	10A (240W)	MZC240-24S24
12V (9~18VDC)	5V	20A (100W)	MZC100-12S05
12V (9~36VDC) W	12V	15A (180W)	MZC180-12S12W
110V (80~170VDC)	24V	10A (240W)	MZC240-110S24
300V (200~400VDC)	48V	5A (240W)	MZC480-300S48

## Dimensions:



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

Unit: mm