

50-75W

DC/DC

## MZB Series

## Features

- Pin fuictim compatible
- Full load efficiency up to 88%@5V
- 1500VDC isolation strength
- High efficiency, for 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
Output Voltage	1.8-48V
Power	50-75W

## 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	6.52°C/W	5.30°C/W
0.5M/S	5.43°C/W	4.42°C/W
1M/S	4.07°C/W	3.31°C/W
1.5M/S	2.96°C/W	2.41°C/W
2M/S	2.44°C/W	1.99°C/W

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## 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%	MZB75-24S05
24	18-36	12	8.33	120	86%	MZB100-24S12
24	18-36	15	6.67	150	89%	MZB100-24S15
48	36-72	05	15	50	88%	MZB75-48S05
48	36-72	12	8.33	120	86%	MZB100-48S12
48	36-72	05	30	50	89%	MZB150-48S05
110	80-180	05	15	50	88%	MZB75-110S05
110	80-180	12	8.33	120	86%	MZB100-110S12
110	80-180	15	6.67	150	89%	MZB100-110S15
300	200-400	05	15	50	88%	MZB75-300S05
300	200-400	12	8.33	120	86%	MZB100-300S12
300	200-400	05	30	50	89%	MZB150-300S05

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

## Mechanical drawing and pin definition

