

FMB50W Series products

Typical performance

- Single output mode
- Total output power 50W
- Output voltage 3.3~48V
- Small size, high power density
- Natural heat dissipation, wide temperature range



Input characteristic

Input voltage range (DC)	18~36V
	36~72V
Remote control CNT	Levitare or connect high level on, ground or connect low level off

Output characteristic

Output voltage accuracy	Vout1 nominal output voltage $\pm 1\%$ /Vout2 nominal output voltage $\pm 3\%$
Load effect	10%~100% I _{on} Change time $\Delta V_{outnom} \leq \pm 0.5\%$
Source effect	V _{inmin} ~V _{inmax} Change time $\Delta V_{outnom} \leq \pm 0.2\%$
Overcurrent protection	Output closed automatic recovery in the 120% to 160% I _{out1nom} range
Ripple noise	$\leq 1\%$ V _{outnom} (max)
Conversion efficiency	See product selection table
Temperature coefficient	$\leq \pm 0.02\%/^{\circ}\text{C}$ (Maximum value)
Voltage regulation	$\pm 10\% V_{O1}$

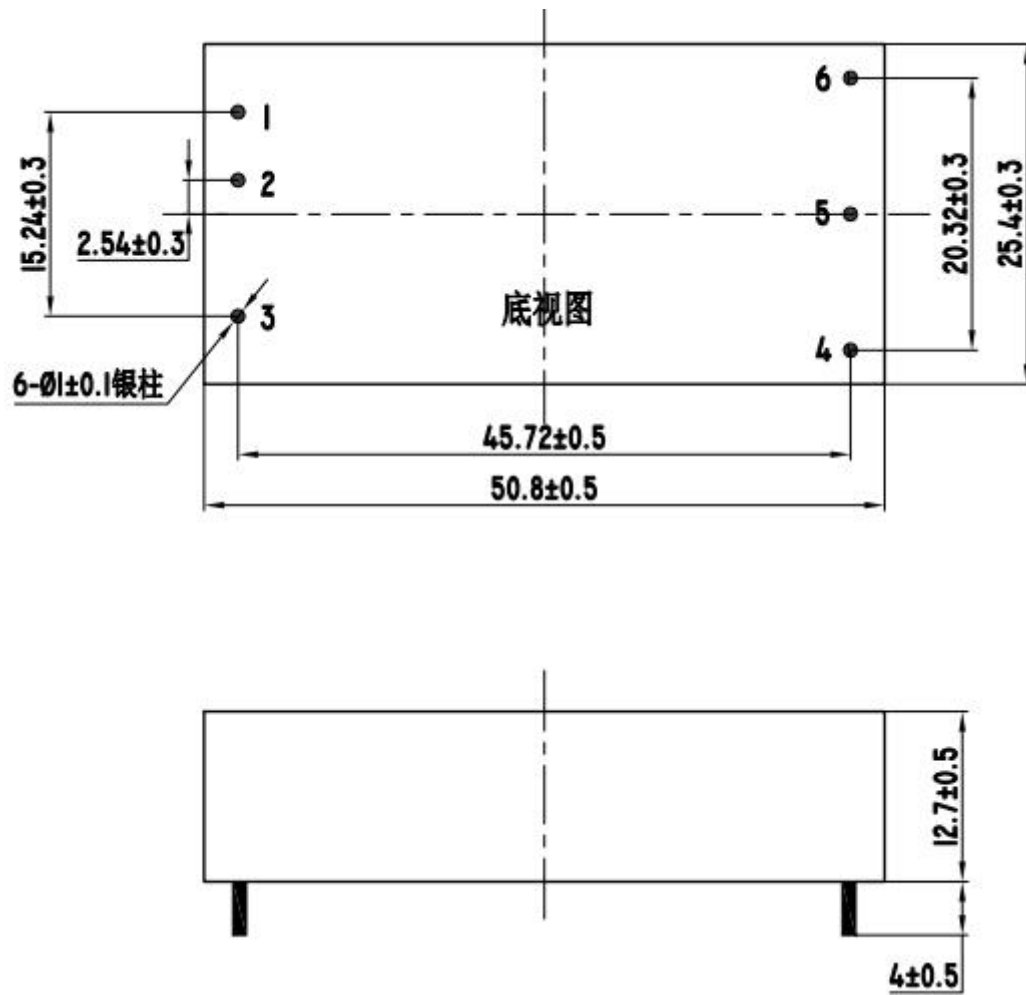
■ General characteristic

Isolation voltage	Vin~Vout、Vin~Case、Vout~Case All three are $\geq 500\text{VDC/min}$ (1500DC can be achieved according to customer requirements)
No failure interval	$\geq 1 \times 10^6\text{h}$
Switching frequency	Around 300kHz
Protection function	Input over voltage, under voltage protection, output short circuit, over current, over voltage protection
Operating temperature	$-40 \sim +55^\circ\text{C}$
Storage temperature	$-55 \sim +85^\circ\text{C}$
Relative humidity	20RH~90RH
Cooling mode	Air cooling, radiator auxiliary cooling

■ Selection list

Model number	Input voltage range Vdc	Output voltage/current (V) / (A)	Maximum capacitive load (μF)	Typical efficiency (%)
FMB50-24S3V3	18~36	3.3/10.00		91
FMB50-24S05	18~36	5.05/10.00		91
FMB50-24S12	18~36	12/4.16		93
FMB50-24S15	18~36	15/3.33		93
FMB50-24S24	18~36	24/2.08		91
FMB50-48S3V3	36~72	3.3/10.00		91
FMB50-48S05	36~72	5.05/10.00		91
FMB50-48S12	36~72	12/4.16		93
FMB50-48S15	36~72	15/3.33		93
FMB50-48S24	36~72	24/2.08		92

Product diagram



unit: mm

Shell material: aluminum shell

Pin definition

definition	1	2	3	4	5	6
Single channel	+Vin	GND	CTRL	TRIM	0	+Vo