

## FM10W Series products

### Typical performance

- Single and dual output modes
- Total output power 10W
- Output voltage 3.3~48V



### Input characteristic

Input voltage range (DC)	9~18V
	18~36V
	9~36V
	36~72V
	18~72V
	75~150V

### Output characteristic

Output voltage accuracy	Vout1 nominal output voltage $\pm 1\%$ /Vout2 nominal output voltage $\pm 3\%$
Load effect	10%~100% I <sub>o</sub> nom Change time $\Delta V_{outnom} \leq \pm 0.5\%$
Source effect	V <sub>in</sub> min~V <sub>in</sub> max Change time $\Delta V_{outnom} \leq \pm 0.2\%$
Overcurrent protection	Output closed automatic recovery in the 120% to 200% I <sub>o</sub> ut I <sub>o</sub> nom range
Ripple noise	$\leq 1\%$ V <sub>outnom</sub> (max)
Conversion efficiency	See product selection table
Temperature coefficient	$\leq \pm 0.02\%/^{\circ}\text{C}$ (Maximum value)

### General characteristic

Isolation voltage	V <sub>in</sub> ~V <sub>o</sub> ut、V <sub>in</sub> ~Case、V <sub>o</sub> ut~Case All three are $\geq 500\text{VDC}/\text{min}$ (1500DC can be achieved according to customer requirements)
No failure interval	$\geq 1 \times 10^6\text{h}$
Switching frequency	300kHz around
Protection function	Long-term short-circuit protection self-recovery
Operating temperature	-25~+55 °C full load /+55~+85 °C derated use (-40 ~+60 °C can be achieved according to customer requirements)
Storage temperature	-55~+105°C



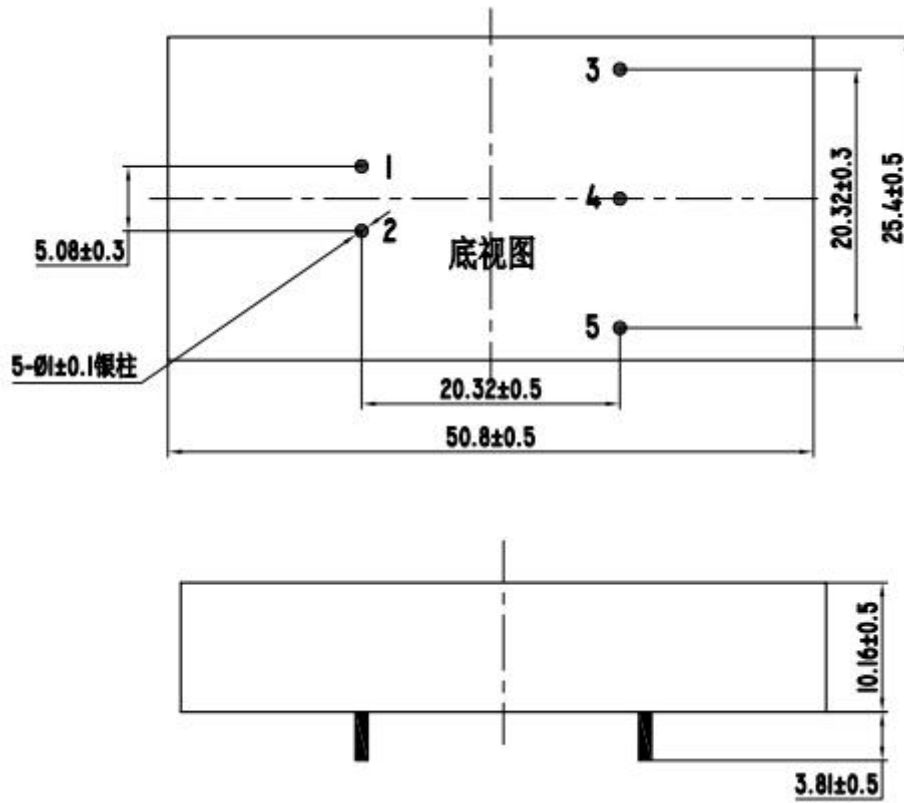
Relative humidity	10RH~90RH
Cooling mode	Natural cooling

■ Selection list

Model number	Input voltage range Vdc	Output voltage/current (V) / (A)	Maximum capacitive load (μF)	Typical efficiency (%)
FM10-12S3V3	9~18	3.3/2.00		76
FM10-12S05	9~18	5.05/2.00		78
FM10-12S12	9~18	12/0.84		82
FM10-12S15	9~18	15/0.67		82
FM10-12S24	9~18	24/0.42		82
FM10-24S3V3	18~36	3.3/2.00		76
FM10-24S05	18~36	5.05/2.00		80
FM10-24S12	18~36	12/0.84		82
FM10-24S15	18~36	15/0.67		82
FM10-24S24	18~36	24/0.42		82
FM10-48S3V3	36~72	3.3/2.00		76
FM10-48S05	36~72	5.05/2.00		82
FM10-48S12	36~72	12/0.84		83
FM10-48S15	36~72	15/0.67		83
FM10-48S24	36~72	24/0.42		84
FM10-12D05	9~18	±5.05/1.00		78
FM10-12D12	9~18	±12/0.42		82
FM10-12D15	9~18	±15/0.33		82
FM10-24D05	18~36	±5.05/1.00		80
FM10-24D12	18~36	±12/0.42		82
FM10-24D15	18~36	±15/0.33		82
FM10-48D05	36~72	±5.05/1.00		80
FM10-48D12	36~72	±12/0.42		83
FM10-48D15	36~72	±15/0.33		83

Note: The input voltage can be 9~36V, 18~72V, 75~150V

■ Product diagram



unit: mm

Shell material: aluminum shell

■ Pin definition

definition	1	2	3	4	5
Single channel	+Vin	-Vin	+Vo	NP	-Vo
two-way	+Vin	-Vin	Vo <sub>1</sub>	COM	Vo <sub>2</sub>

NP Indicates no pins