



The USP-240MFA-48DN is a robust and efficient switching power supply engineered for demanding industrial applications. With a DC output voltage of 48V and an accuracy of $\pm 1\%$, it delivers up to 240W of reliable power. Supporting a current range of 0 to 5A, this power supply is housed in a slim 54mm-wide and 124mm-high design, making it ideal for installations where performance and space efficiency are critical.

Key Features:

- **Precise Voltage Output – 48V DC $\pm 1\%$ Accuracy**
Ensures stable and consistent power for precision systems and devices.
- **Flexible Current Range – 0~5A**
Accommodates varying load requirements for versatility in applications.
- **High Power Capability – 240W Output**
Sufficient power for heavy-duty industrial and automation systems.
- **Compact Design – 54mm Width, 124mm Height**
Maximizes space efficiency in control panels and confined installations.
- **Durable and Reliable**
Engineered for consistent performance in rugged industrial environments.

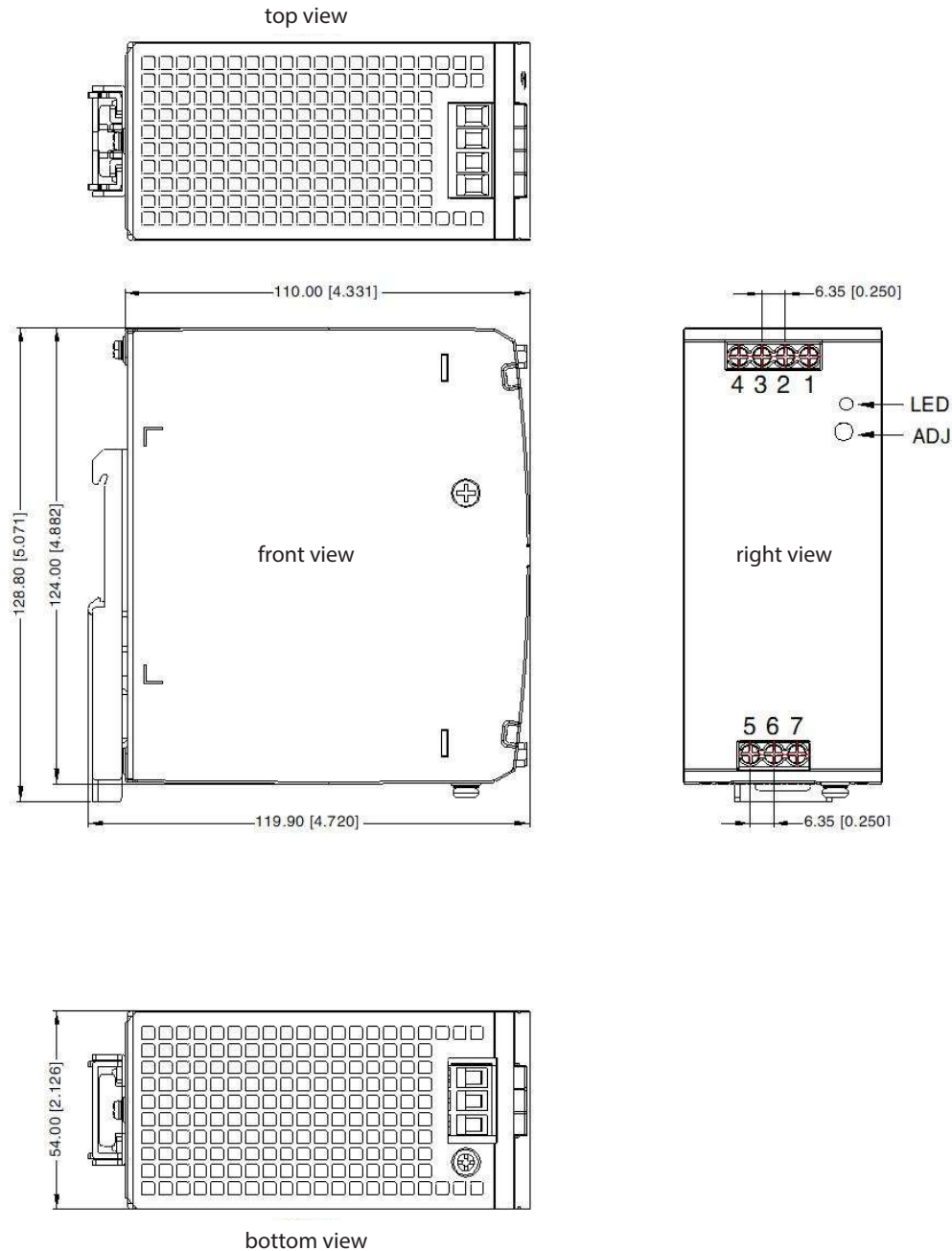
Notes

1. If not specified, all indicators are measured at $T_a=25^\circ\text{C}$, humidity $<75\%$ RH, rated input voltage and rated output load.
2. To improve the conversion efficiency. When the module is higher than the operating voltage, there may be some audio noise, but not affecting the product performance and reliability.
3. When the product terminal is used, the shell should be connected to the ground.
4. After scrapping, our products shall be stored according to ISO 14001 and relevant environmental laws and regulations, and be handled by qualified units.
5. The output voltage can be adjusted by the output adjustable resistance ADJ and raised in a clockwise direction.
6. When the elevation exceeds 2000 m (65000 ft), the temperature drops 5 / 1000m

Electrical specifications

	Type	USP-240MFA-48DN
Output	DC output voltage	48V
	Output voltage accuracy	$\pm 1\%$
	Rated output current	5A
	Output current range	0-5A
	Output power	240W
	Ripple and noise	150mVp-p
	DC voltage adjustable	48~53V
	Power-down hold time	20ms/230V AC
Input	Input voltage range	85~264V AC /127~370V DC
	AC input current	3A/115V AC, 1.5A/230V AC
	Efficiency	94%
	Impact current	15A/115V AC 30A/230V AC(cold boot)
	Leakage current	$<1\text{mA}/264\text{V AC}$
Protection Feature	Short-circuit protection	After the short circuit state disappears, the recovery time is 10s; hiccup mode, constant current work 1s, off 10s, long-term short circuit protection and self-recover
	Overcurrent protection	Ambient temperature (normal temperature, high temperature) overcurrent protection: 110% -200%lo, constant current mode, recovered after load condition removal (230V AC, rated load) Ambient temperature (low temperature) Overcurrent protection 105% lo: constant current mode, recovered after load condition removal (230V AC, rated load)
	Overvoltage protection	$\leq 60\text{v}$, recovered
Environment	Operating temperature and humidity	$-40^\circ\text{C}\sim+70^\circ\text{C}$; 10%~90%RH No condensation (Please refer to the "Reduction Curve").
	Storage temperature and humidity	$-40^\circ\text{C}\sim+85^\circ\text{C}$; 10%~95%RH No condensation
Safe	Pressure resistance	I/P-O/P: 3KV AC I/P-FG: 2KV AC O/P-FG: 0.5KV AC
	Insulation resistance	I P O P, I/P-FG, O/P-FG: 100M Ω / - / Ohms/500V DC/25°C/70%RH
Standard	Safety standards	Meet IS13252 (Part1)& EN62368 - 1 , IEC/UL/BS EN62368-1, UL61010-1, UL508
General Data	Size	124*54*110mm
	Package	0.6kg

Institutional Size - Unit=mm



third corner projection

Pin Mode	
pin	Function
1	-Vo
2	-Vo
3	+Vo
4	+Vo
5	AC(N)
6	AC(L)
7	

Note:

Unit size: mm [inch]

LED: Output status indicator light

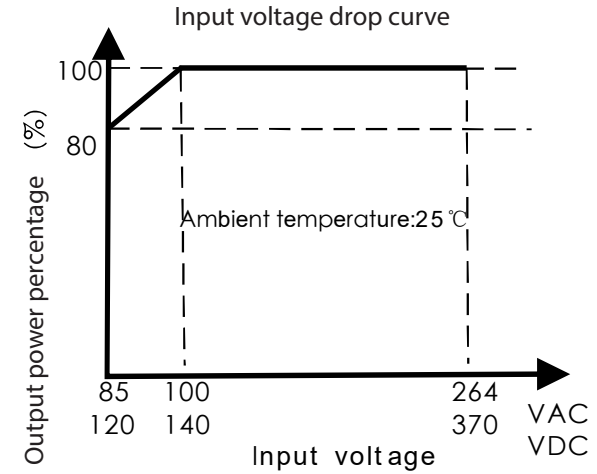
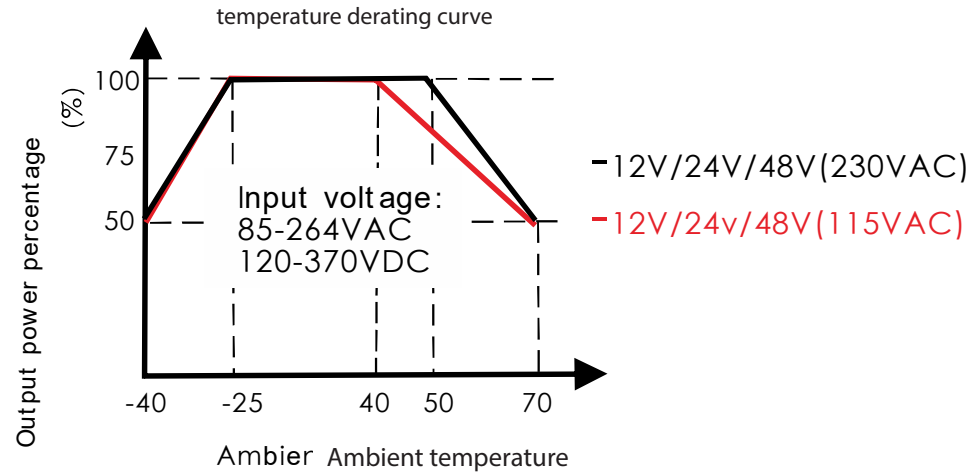
ADJ: Output adjustable resistance

Crimping range: input 26-10 AWG (12-10AWG for pin7)

output :16-10AWG

Tightening torque: Max.0.79N. m

Reduction Curve



- Notes:
1. for input voltage is 85-100VAC/120-140VDC, the input voltage drop shall be performed on the basis of the temperature drop
 2. This product is suitable for use in a natural air cooling environment.

