



The USP-60PFN-24DN is a compact and efficient switching power supply designed for precision and reliability. With a DC output voltage of 24V and an accuracy of $\pm 2\%$, this power supply delivers up to 60W of power with a rated output current of 2.5A. Its slim dimensions—just 52mm wide and 58mm high—make it an excellent solution for installations where space efficiency is essential, while ensuring dependable performance for a wide range of industrial and automation applications.

Key Features:

- **Precise Voltage Output – 24V DC $\pm 2\%$ Accuracy**
Delivers stable and accurate power for sensitive devices and systems.
- **Wide Current Range – 0~2.5A**
Supports various load requirements, making it versatile for different applications.
- **High Power Capability – 60W Output**
Provides reliable power delivery for medium-duty industrial needs.
- **Compact Design – 52mm Width, 58mm Height**
Perfect for installations with space constraints, without compromising performance.
- **Durable & Energy-Efficient**
Engineered for long-term use with minimal power loss and maximum reliability.

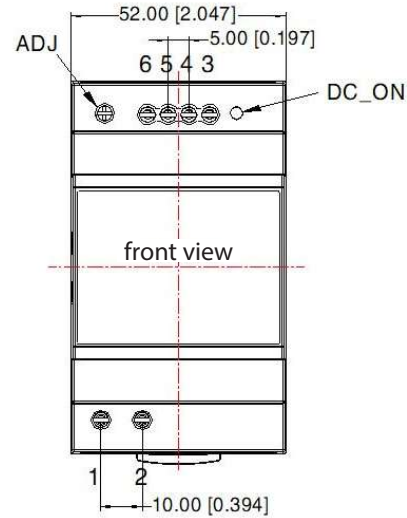
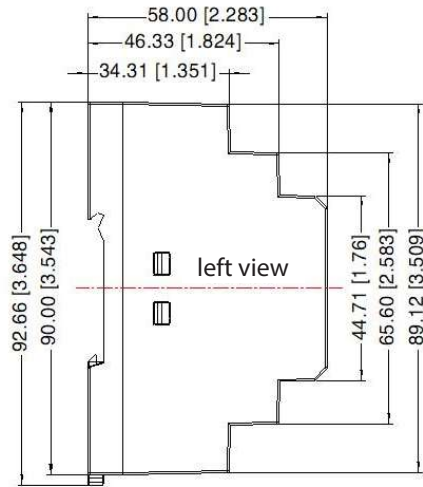
Notes

1. If not specified, all parameters are measured at $T_a = 25^\circ\text{C}$, humidity $< 75\% \text{ RH}$, 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. The test method for ripple and noise adopts the proximity test method, with a 47 μF electrolytic capacitor and a 0.1 μF ceramic capacitor connected in parallel at the output.
5. The power supply shall be regarded as a part of the system components, and all EMC tests shall be confirmed in combination with the terminal equipment.

Electrical specifications

	Type	USP-60PFN-24DN
Output	DC output voltage	24V
	Output voltage accuracy	$\pm 2\%$
	Rated output current	2.5A
	Output current range	0-2.5A
	Output power	60W
	Ripple and noise	150mVp-p
	DC voltage adjustable	21.6~29V
	Power-down hold time	15ms/115VAC, 80ms/230VAC
Input	Input voltage range	85~264VAC / 127~370VDC
	AC input current	1.2A/115VAC/0.8A/230VAC
	Efficiency	90%
	Impact current	30A/115VAC 60A/230VAC(cold boot)
	Leakage current	$< 0.5\text{mA}/240\text{VAC}$
Protection Feature	Short-circuit protection	Hiccup protection: After the short-circuit state disappears, the recovery time is 3 seconds. It can provide long-term short-circuit protection and self-recovery
	Overcurrent protection	$\geq 120\% I_o$, self-recoverable after the load condition is removed (230VAC, rated load)
	Overvoltage protection	$\leq 36\text{V}$ (Output voltage clamping or hiccups)
Environment	Operating temperature and humidity	$-40^\circ\text{C} \sim +70^\circ\text{C}$; 20%~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: 4KVAC
	Insulation resistance	I/P-O/P: 100M Ω Ohms/500VDC/25°C/70%RH
Standard	Safety standards	Meet IS13252(Part1)&EN62368-1, UL/IEC62368-1
General Data	Size	92.66*52*58mm
	Package	0.175kg

Institutional size



PIN Mode	
PIN	LI60-20B
1	AC(L)
2	AC(N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo

Note:

Unit size: mm [inch]

ADJ: Output adjustable resistance

Crimping range: 24-12 AWG

Tightening torque: Max.0.4 N. m

Reduction curve

