



The USP-30PFN-24DN is a compact and efficient switching power supply, delivering a stable 24V DC output with an accuracy of $\pm 2\%$. With a rated current of 1.5A and a maximum output power of 36W, this power supply is ideal for low-to-medium power applications. Its compact dimensions—just 35mm wide and 58mm high—make it perfect for space-constrained installations while ensuring consistent and reliable performance.

Key Features:

- **Precise Voltage Output – 24V DC $\pm 2\%$ Accuracy**
Ensures steady and reliable power for critical devices and systems.
- **Flexible Current Range – 0~1.5A**
Supports a variety of load requirements, making it versatile for multiple applications.
- **Compact Design – 35mm Width, 58mm Height**
Space-saving form factor optimized for tight installations.
- **Energy-Efficient Power Output – 36W Capacity**
Delivers reliable performance with minimal energy waste.
- **Durable Construction**
Built for longevity and consistent operation in industrial

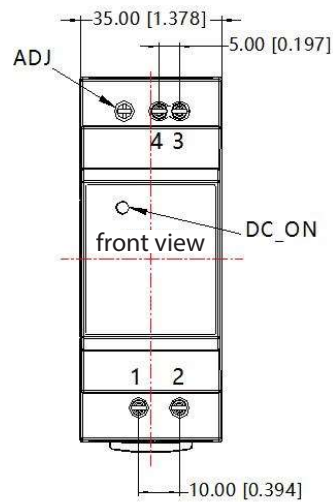
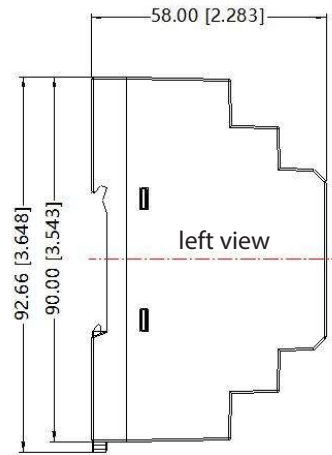
Notes

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-30PFN-24DN
Output	DC output voltage	24V
	Output voltage accuracy	$\pm 2\%$
	Rated output current	1.5A
	Output current range	0~1.5A
	Output power	36W
	Ripple and noise	150mVp-p
	DC voltage adjustable	21.6~29V
	Power-down hold time	12ms/115VAC, 60ms/230VAC
Input	Input voltage range	85~264VAC / 127~370VDC
	AC input current	0.9A/115VAC/0.5A/230VAC
	Efficiency	88%
	Impact current	25A/115VAC 45A/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 $^\circ\text{C}$ /70%RH
Standard	Safety standards	Meet IS13252(Part1)&EN62368-1, UL/IEC62368-1
General Data	Size	92.66*35*58mm
	Package	0.115kg

Institutional size



PIN Mode	
PIN	LI30-20B
1	AC(N)
2	AC(L)
3	-Vo
4	+Vo

Note:

Unit size: mm [inch]

ADJ: Output adjustable resistance

Crimping range: 24-12 AWG

Tightening torque: Max.0.4 N. m

Reduction curve

