



The USP-30PFN-05DN is a compact and efficient switching power supply, delivering a precise 5V DC output with an accuracy of $\pm 2\%$. With a rated current of 3A and a maximum output power of 15W, this power supply is perfect for low-power industrial and automation applications. Its small footprint, measuring just 35mm wide and 58mm high, makes it an excellent choice for installations where space is limited.

Key Features:

- **Precise Voltage Output – 5V DC $\pm 2\%$ Accuracy**
Provides reliable and stable power for sensitive devices.
- **Flexible Current Range – 0~3A**
Adaptable to various load requirements, offering versatility for different applications.
- **Compact & Lightweight Design – 35mm Width, 58mm Height**
Optimized for installations in space-constrained setups without sacrificing performance.
- **Energy-Efficient Operation – 15W Output Power**
Ensures reliable power delivery with minimal energy waste.
- **Rugged & Durable Construction**
Built to handle the rigors of industrial and electronic environments.

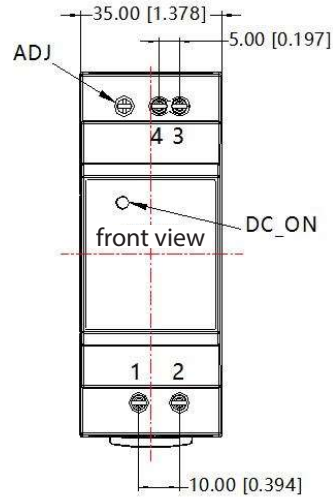
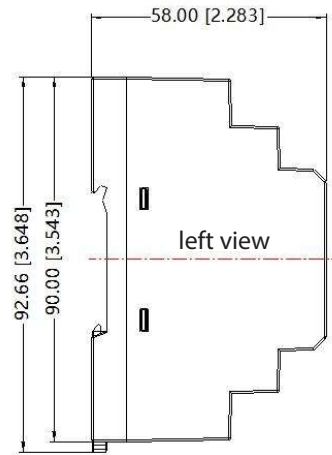
Notes

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-05DN
Output	DC output voltage	5V
	Output voltage accuracy	$\pm 2\%$
	Rated output current	3A
	Output current range	0-3A
	Output power	15W
	Ripple and noise	80mVp-p
	DC voltage adjustable	4.9~5.5V
	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	82%
	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	$\leq 7.5\text{V}$ (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

