

SNP-P15 Series

154 W AC/DC Switch Mode Power Supplies – Open Frame

CoolPower
Solutions

- Built-in +5Vsb / 10W module and remote control
- With ITE & Medical safety
- 3" x 5" industrial standard footprint
- Ultra slim with only 1.07" (27.1mm) height



Electrical specifications

Input	Voltage	90-264 VAC
	Frequency	47-63 Hz
	Inrush Current	< 60 A at 230 VAC, cold start, 25°C
Output	Output Power	154 W, Peak 220 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Efficiency	89%
	Hold-up Time	20 ms typical
Protection	Over Load Protection	Auto recovery
	Over Voltage Protection	Latch off
	Short Circuit Protection	Auto recovery
Environment	Operating Temperature	-20°C ... +70°C (derating: 2.5% / °C > 50°C)
	Storage Temperature	-40°C ... +85°C
	Humidity	5% to 90% RH, non-condensing
Physical	Dimension (L x W x H)	76.2 x 127 x 27.1 mm
	Weight	277 g
	Cooling	Convection cooling
	Connections	AC input : 5277-02A or equivalent DC output : 5273-09A or equivalent Fan : 5045-02A or equivalent
Safety & EMC	EMI	EN55022 "B", EN61000-3-3
	Harmonics	EN61000-3-2
	EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
	Safety Approvals	ANSI/AMMI/CSA/EN60601-1, 3rd edition UL/CSA/EN60950-1, 2nd edition

Applications

- For patient contact medical device such as AED
- For power saving required system such as LCD Monitor
- For system that needs peak power for several seconds such as Coffee Machine

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Models

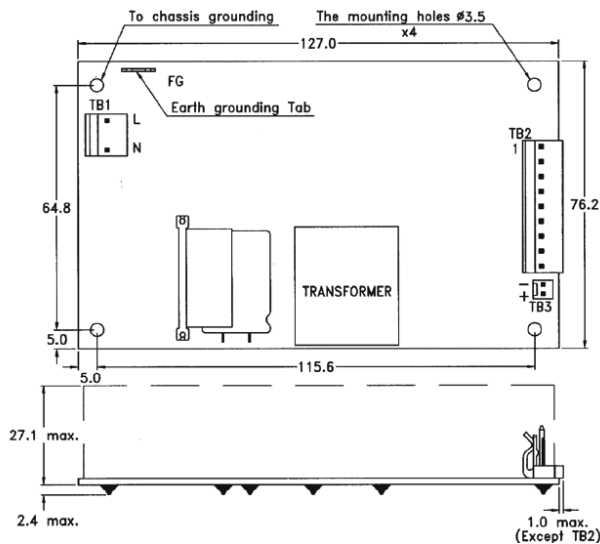
Model	Output	Load				Initial accuracy*	Ripple Noise	Line Reg.	Load Reg.	Efficiency Typical
		Min	Rated	Max	Peak					
SNP-P157-S	+12 V +5Vsb	0 A 0 A	12.0 A 2.0 A		18.0 A	+11.9V~+12.1V - +4.9V~+5.1V	100mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P158-S	+15 V +5Vsb	0 A 0 A	9.6 A 2.0 A		14.4 A	+14.9V~+15.1V +4.9V~+5.1V	120mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P155-S	+18 V +5Vsb	0 A 0 A	8.0 A 2.0 A		12.0 A	+17.9V~+18.1V +4.9V~+5.1V	150mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P159-S	+24 V +5Vsb	0 A 0 A	6.0 A 2.0 A		9.0 A	+23.9V~+24.1V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P15G-S	+28 V +5Vsb	0 A 0 A	5.1 A 2.0 A		7.7 A	+27.9V~+28.1V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P15J-S	+36 V +5Vsb	0 A 0 A	4.0 A 2.0 A		6.0 A	+35.8V~+36.2V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%	89%
SNP-P15T-S	+48 V +5Vsb	0 A 0 A	3.0 A 2.0 A		4.5 A	+47.8V~+48.2V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%	89%

Notes

1. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
2. Max. duration of peak load is 5 sec. with duty cycle 10%, and average power should be lower than rated power.
3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
4. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 μ F capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.
8. For ordering, SNP-P15x-S is for ITE safety, and SNP-P15x-SM is for Medical safety.

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Dimensions



Derating curve:

