SNP-E30 Series

300 W AC/DC Switch Mode Power Supplies – Enclosed

CoolPower Solutions

- With built-in active PFC
- With ITE & Medical (-M) safety
- Efficiency 90%
- Operation from -20°C to 70°C
- 18 CFM Built-in fan



Electrical specifications

Input	Voltage	90-264 VAC
	Frequency	47-63 Hz
	Inrush Current	< 60 A at 230 VAC, cold start, 25ºC
Output	Output Power	300 W, Peak 400 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Line / Load regulation	± 1.0% / ± 1.0%
	Efficiency	90%
	Ripple	See table
	Hold-up Time	20 ms typical
	No-load power consumption	< 0.5 W
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 36.1 mm (3"×5"×1.7")
	Weight	353 g
	Cooling	18 CFM forced air
	Connections	AC input: Molex 5277-02A or equivalent DC output: Terminal blocks or Molex 5273-08A (equivalent) Fan, Remote sense: Molex 5045-02A or equivalent
Safety & EMC	EMI	EN55022 "B", EN61000-3-3
	Harmonics	EN61000-3-2 class D
	EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
	ESD	EN61000-4-2, criterion A, 6kV contact, 8kV air discharge
	Safety Approvals	UL60950-1 : (cULus) EN 60601-1 : 2006 +A11 (TUV) ANSI/AAMI ES60601-1 : 2005 (cULus) EN 60601-1 : 2006 (TUV)

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Models

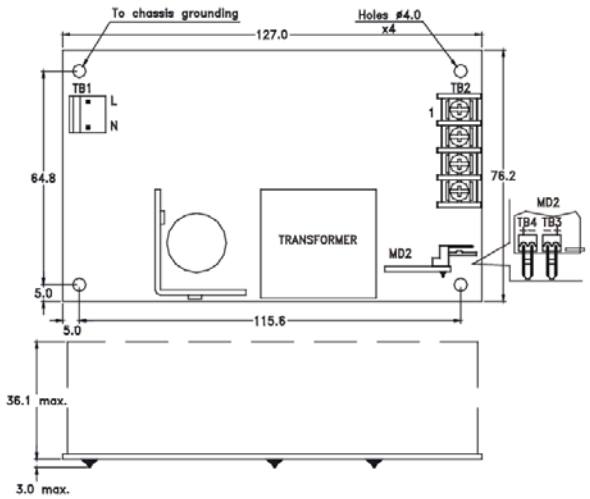
Model	Output	Load			Initial accuracy*	Ripple& Noise*	Line / Load Regulation
		Min	Rated	Peak			
SNP-E307	+12 V	0 A	25,0 A	33.0 A	11.9V~12.1V	120 mV	±1 % / ±1 %
SNP-E308	+15 V	0 A	18.0 A	22.5 A	14.9V~15.1V	150 mV	±1 % / ±1 %
SNP-E305	+18 V	0 A	16.6 A	22.3 A	17.9V~18.1V	150 mV	±1 % / ±1 %
SNP-E309	+24 V	0 A	12.5 A	16.7 A	23.9V~24.1V	200 mV	±1 % / ±1 %
SNP-E30G	+28 V	0 A	10.7 A	13.0 A	27.9V~28.1V	200 mV	±1 % / ±1 %
SNP-E30J	+36 V	0 A	8.30 A	11.0 A	35.8V~36.2V	250 mV	±1 % / ±1 %
SNP-E30T	+48 V	0 A	6.30 A	8.40 A	47.8V~48.2V	250 mV	±1 % / ±1 %

Notes

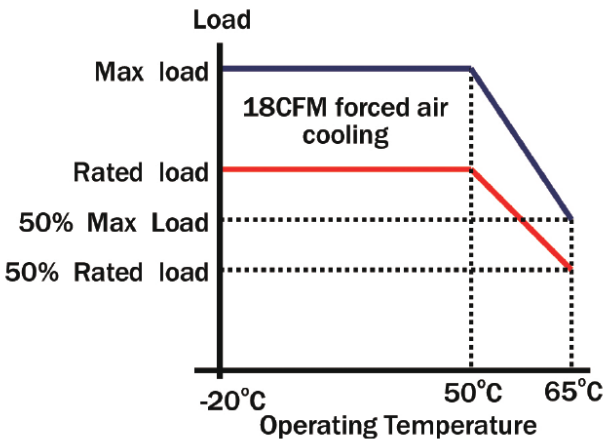
1. Each output can provide up to max load separately when the power supply starts up. To exceed the max. output power continuously is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±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 0.47uF 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.

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Dimensions



Derating



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