

SNP-G30 Series

300 W AC/DC Switch Mode Power Supplies

CoolPower
Solutions

- With built-in active PFC
- Only 1.5 inch height
- 6.0 Watt per cubic inch
- With ITE & Medical (-M) safety
- Average efficiency > 87%
- Operation from -20°C to 70°C by convection
- No load input power < 0.5W



Electrical specifications

Input	Voltage	90-264 VAC
	Frequency	47-63 Hz
	Inrush Current	< 60 A at 230 VAC, cold start, 25°C
	Power Factor	> 0.93
Output	Output Power	300 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Line / Load regulation	± 1.0% / ± 1.0%
	Efficiency	87%~93% depends on models
	Ripple	See table below
	Hold-up Time	20 ms typical at rated load and 115VAC
	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	-20°C ... +85°C
	Humidity	5% to 90% RH, non-condensing
Physical	Dimension (L x W x H)	106.7 x 203.2 x 38.1 mm
	Weight	740 g
	Cooling	Free air convection; 350W with 18 CFM forced air
	Connections	AC input: Terminal blocks DC output: Terminal blocks Fan, Remote sense, LED : 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
	Safety Approvals	UL60950-1 : (cULus) EN 60601-1 : 2006 +A11 (TUV) ANSI/AAMI ES60601-1 : 2005 (cULus) EN 60601-1 : 2006 (TUV)
Energy saving		Meet Energy Star ver. 2.0 level V

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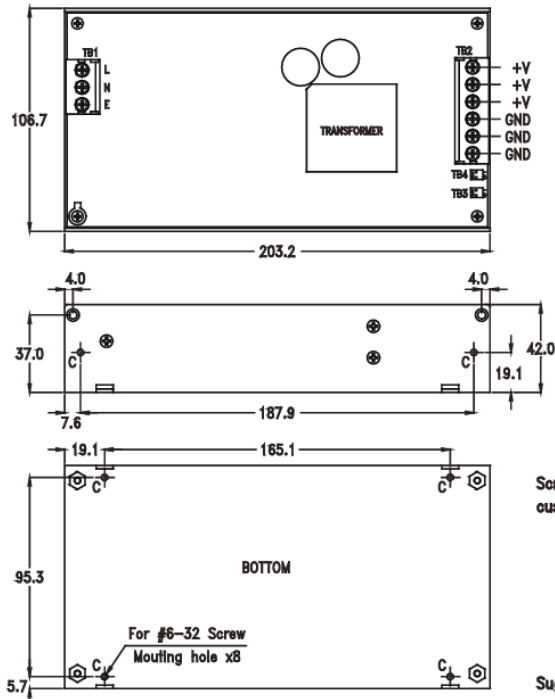
Models

Model	Output	Load			Initial accuracy*	Ripple & Noise*	Line / Load Regulation
		Min	Rated	Max			
SNP-G307	+12 V	0 A	25.0 A	30.0 A	+11.4V~+12.6V	100 mV	±1% / ±1%
SNP-G308	+15 V	0 A	20.0 A	24.0 A	+14.3V~+15.7V	100 mV	±1% / ±1%
SNP-G305	+18 V	0 A	17.0 A	20.5 A	+17.1V~+18.9V	150 mV	±1% / ±1%
SNP-G309	+24 V	0 A	12.5 A	15.0 A	+23.8V~+24.2V	200 mV	±1% / ±1%
SNP-G30T	+48 V	0 A	6.3 A	7.6 A	+45.6V~+50.4V	200 mV	±1% / ±1%
SNP-G30H	+60 V	0 A	5.0 A	6.0 A	+54.5V~+65.5V	200 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.

Dimensions



Derating

