

SNP-G20 Series

200 W AC/DC Switch Mode Power Supplies

CoolPower
Solutions

- With built-in active PFC
- With ITE & Medical (-M) safety
- Efficiency 90%
- Operation from -20°C to 70°C
- Optional U-shape case (-U) / Metal box (-C)



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	160 W, Peak 320 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Line / Load regulation	± 1.0% / ± 1.0%
	Efficiency	90%
	Ripple	See table below
	Hold-up Time	20 ms typical at rated load and 115VAC
Protection	No-load power consumption	< 0.5 W
	Over Load Protection	Auto recovery
	Over Voltage Protection	Latch off
Environment	Short Circuit Protection	Auto recovery
	Operating Temperature	-20°C ... +70°C (derating: 2.5% / °C > 50°C)
	Storage Temperature	-40°C ... +85°C
Physical	Humidity	5% to 90% RH, non-condensing
	Dimension (L x W x H)	76.2 x 127 x 36.1 mm (3"x5"x1.7")
	Weight	353 g (Open Frame)
	Cooling	Free air convection; 300W with 18 CFM forced air
Safety & EMC	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
	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

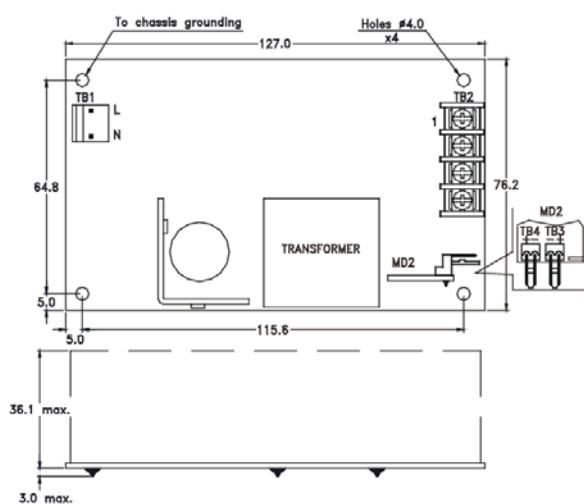
Model	Output	Load				Initial accuracy*	Ripple & Noise*	Line / Load Regulation
		Min	Rated	Max	Peak			
SNP-G207	+12 V	0 A	16.5 A	25.0 A	33.0 A	+11.9V~+12.1V	120 mV	±1% / ±1%
SNP-G208	+15 V	0 A	12.0 A	18.0 A	22.5 A	+14.9V~+15.1V	150 mV	±1% / ±1%
SNP-G205	+18 V	0 A	11.1 A	16.6 A	22.3 A	+17.9V~+18.1V	150 mV	±1% / ±1%
SNP-G209	+24 V	0 A	8.4 A	12.5 A	16.7 A	+23.9V~+24.1V	200 mV	±1% / ±1%
SNP-G20G	+28 V	0 A	7.2 A	10.7 A	13.0 A	+27.9V~+28.1V	200 mV	±1% / ±1%
SNP-G20J	+36 V	0 A	5.6 A	8.3 A	11.0 A	+35.8V~+36.2V	250 mV	±1% / ±1%
SNP-G20T	+48 V	0 A	4.2 A	6.3 A	8.4 A	+47.8V~+48.2V	250 mV	±1% / ±1%

Notes

- 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.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.
- 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.
- 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.
- Efficiency is measured at rated load and nominal line.
- For optional U-shape case / Metal box version.

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Dimensions



Derating

