

SNP-F60 Series

600 W AC/DC Switch Mode Power Supplies – Enclosed

CoolPower
Solutions

- All with universal input
- Built-in active PFC
- With all necessary protection
- Efficiency between 86% to 90%
- Three installation ways for customer's system
- For Din Rail hook assembly
- Peak load up to 1000W for 8 sec.



Electrical specifications

Input	Voltage	90-264 VAC
	Frequency	47-63 Hz
	Inrush Current	< 20 A at nominal
	Power Factor	> 0,93
Output	Output Power	600 W, Peak 1000 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Efficiency	86%~90% depends on models
	Hold-up Time	16 ms typical at rated load and 115VAC
Protection	Over Load Protection	Auto recovery
	Over Voltage Protection	Latch off
	Short Circuit Protection	Auto recovery
Environment	Operating Temperature	0°C ... +50°C
	Storage Temperature	-20°C ... +85°C
	Humidity	5% to 90% RH, non-condensing
Physical	Dimension (L x W x H)	127 x 275 x 75 mm
	Weight	2,3 kg
	Cooling	Convection cooling
	Connections	AC input & DC output: Terminal Blocks
Safety & EMC	EMI	FCC "B", EN55022 "B"
	Harmonics	EN61000-3-2 class D
	EMS	EN61000-4-2,-3,-4,-5,-6,-11
	Safety Approvals	UL/EN/CSA 60950-1 UL/EN/CSA 60601-1

Applications

For ITE, medical and industrial equipment.

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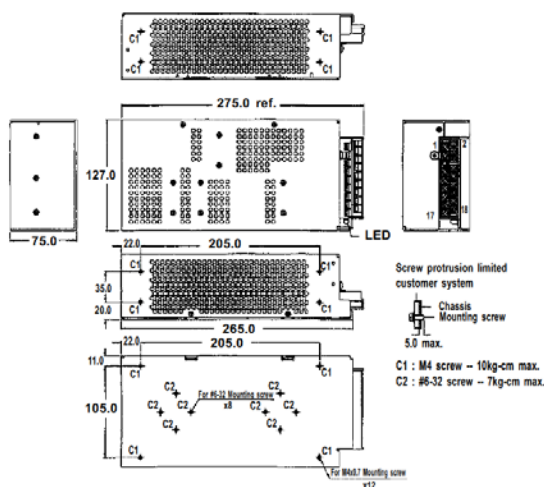
Models

Model	Output	Load				Initial accuracy*	Ripple Noise	Line Reg.	Load Reg.	Efficiency Typical
		Min	Rated	Max	Peak					
SNP-F607	+12 V	0.2 A	45.8 A		83.5 A	+11.9V~+12.1V	120mVpp	±1%	±1%	86%
SNP-F609	+24 V	0.2 A	25.0 A		42.0 A	+23.9V~+24.1V	240mVpp	±1%	±1%	88%
SNP-F60J	+36 V	0.2 A	16.6 A		27.8 A	+35.6V~+36.4V	360mVpp	±1%	±1%	90%
SNP-F60T	+48 V	0.2 A	12.5 A		20.8 A	+47.8V~+48.2V	480mVpp	±1%	±1%	90%

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 $\pm 10\%$ 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 0.47uF 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.
8. EMI filter (Delta 15GEE G3E-R) has to be used for the requirement of EMI.
9. Installations (A) and (B) can achieve 100% rated load, installation (C) can achieve 85% rated load

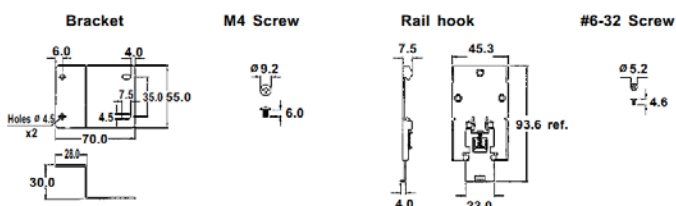
Dimensions



Accessories

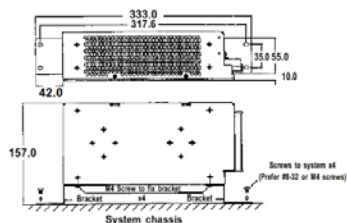
For vertical assembly :
Bracket x 2 pcs & M4 screws x 4

For 35mm carrier rail application :
Rail hook x2 & #6-32 screw x 6 (Options)

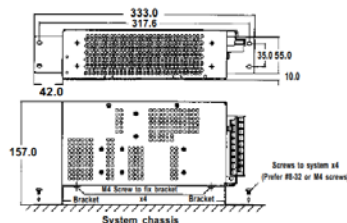


Installation

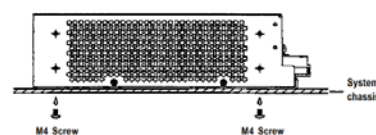
Installation (A) : AC input at lower side
Vertical assembly with bracket



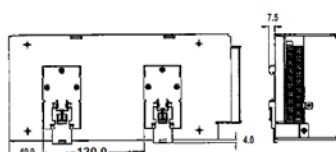
Installation (B) : AC input at upper side
Vertical assembly with bracket



Installation (C) :
Horizontal assembly without bracket



Installation (A) : AC input at lower side
Din rail hook assembly



Installation (B) : AC input at upper side
Din rail hook assembly

