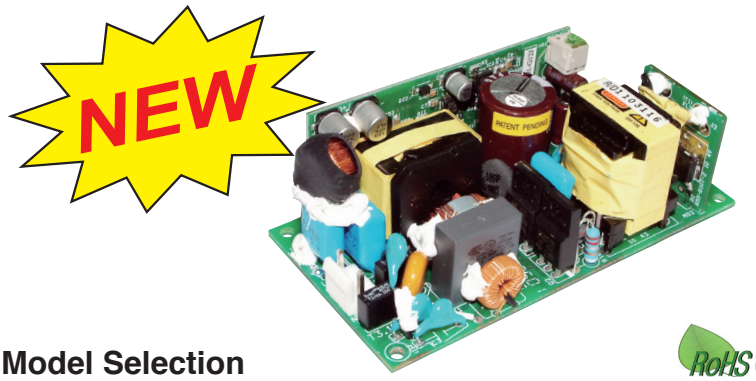
Skynet®
THE RELIABLE SOURCE

ELEKTROSIL
Ideen. Lösungen. Produkte.

SNP-G12 Series

Rated 120W
Max 150W
Peak 200W



Features

- 2" x 4" footprint
- High efficiency up to 91%
- High Power Density up to 11.7W/in^3
- ITE & Medical models available
- Built-in Active PFC

Model Selection

Model No. (ITE Models)*	Output Rail	Load				Initial Accuracy*	Ripple& Noise	Efficiency
		Min	Rated	Max	Peak*			
SNP-G127	+12V	0A	10.0A	12.5A	16.7A	+11.9V~+12.1V	120mVpp	90%
SNP-G128	+15V	0A	8.0A	10.0A	13.4A	+14.9V~+15.1V	100mVpp	90%
SNP-G125	+18V	0A	6.6A	8.3A	11.1A	+17.9V~+18.1V	150mVpp	90%
SNP-G129	+24V	0A	5.0A	6.3A	8.3A	+23.9V~+24.1V	150mVpp	90%
SNP-G12G	+28V	0A	4.2A	5.4A	7.2A	+27.9V~+28.1V	150mVpp	90%
SNP-G12J	+36V	0A	3.3A	4.2A	5.6A	+35.8V~+36.2V	200mVpp	91%
SNP-G12T	+48V	0A	2.5A	3.1A	4.2A	+47.8V~+48.2V	250mVpp	91%

General Specifications

— Input & Output —		***— EMC —***	
Input voltage range	90VAC to 264VAC	Emission	FCC/CISPR, level B
Label voltage	100VAC to 240VAC	Harmonic currents	EN61000-3-2, class D
Nominal line voltage	115VAC/230VAC	Voltage flicker	EN61000-3-3
Input frequency range	47Hz to 63Hz	ESD	EN61000-4-2, criterion A
Inrush current*	<30A at 115VAC, <60A at 230VAC		6kV contact, 8kV air discharge
Average efficiency*	>87%	Radiated immunity	EN61000-4-3
No load input power	<0.5W (fan disconnected)		10V/M with 80% AM, creiterion A
Line regulation	<±0.5%	EFT/Burst	EN61000-4-4, 2kV, criterion A
Load regulation	<±1%	Surge	EN61000-4-5
Hold-up time	20ms typ.		1kV L-L, 2kV L-E, criterion A
		Conducted immunity	EN61000-4-6
— Protection —			10V with 80% AM, criterion A
Over Voltage*	Latch-off	MS	EN61000-4-8, 10A/m, criterion A
Over Load/Short	Auto-recovery	Voltage dips	EN61000-4-11
			30% dips 10ms, criterion A
— Environmental —			60% dips 100ms, criterion C
Operating temperature	-20°C to +70°C		95% dips 5000ms, criterion C
Cooling	Convection for rated load		
	8CFM forced air for max load	***— Safety —***	
Power derating	Refer to Power Derating Curve	Approvals	60950-1, 2nd edition (TUV, UL, CSA)
Storage temperature	-40°C to +85°C		60601-1, 3rd edition (TUV, UL, CSA)
Relative humidity	5% to 90% RH, non-condensing		CB Report, CE Mark
Operating altitude	0 to 3000m		
MTBF*	>0.18Mhr		

Notes

- All specifications without special notices are defined at nominal line, rated load and 25°C.
- To order medical model, please add suffix "-M" in the end of the ITE model name, e.g. SNP-G127-M.
- Initial accuracy is set at 60% rated load and 115VAC input.
- Peak load can last 2 seconds with 10% duty cycle and average power < 100W.
- Ripple & Noise is defined with 20MHz BWL oscilloscope and 1X probe with 0.47uF output capacitor.
- Inrush current is defined at 25°C cold start and EMI capacitors are excluded.
- Over voltage protection mode is defined at 60% rated load.
- Average efficiency is the average efficiency value of 25%, 50%, 75% and 100% rated load at nominal line input.
- MTBF is calculated according to MIL-HDBK-217F at rated load/nominal line input and 45°C ambient temperature.
- All specifications subject to change without notice.
- This datasheet is only for model selection. Please contact sales@skynetpower.com.tw for formal specificaion.

Product Manager: Claus
Technical Supervisor: Claus

Rev. 2011

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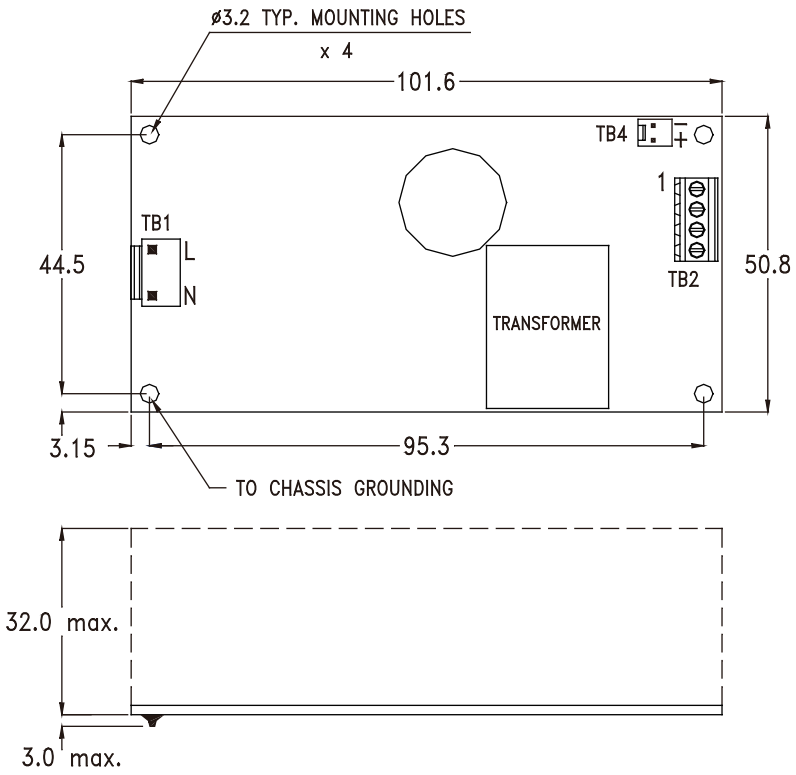


Output Pin

TB2	1	2	3	4
Pin assignment	RTN		+V	

Connector type*

- TB1 AC input : JST B2P3-VH
- TB2 DC output : Terminal Blocks
- TB4 fan output : Molex 5045-02A

Dimensions

- WxLxH : 2" x 4" x 1.28"
  50.8 x 101.6 x 32.5 (mm)

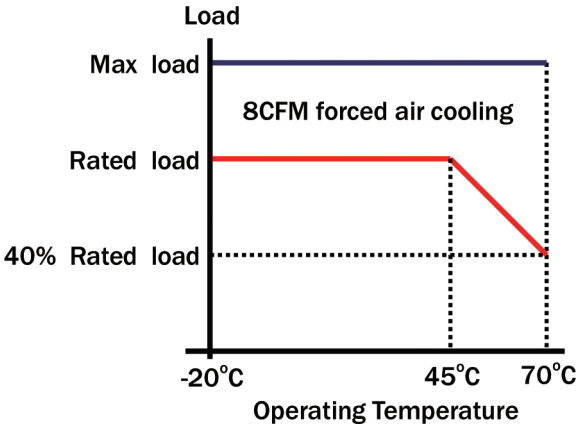
Packing

- Net weight : 160g approx./unit
- Carton size (mm) : 446(L) x 412(W) x 287(H)
- Quantity : 80 units / carton
- Gross weight : 16kg approx./carton

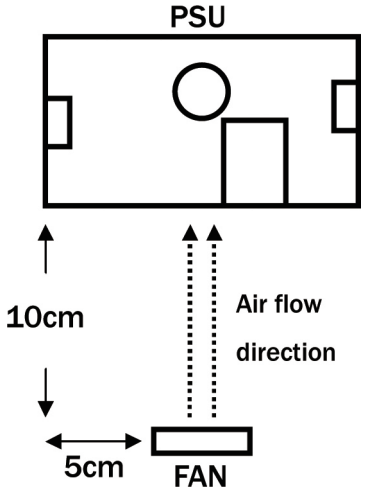
Notes

- For all connectors, equivalent types from other vendors could be used.
- Fan output is +12V with max 0.2A.
- Dimensions in left graph are shown in mm.
- Tolerance for dimension is ±0.4mm.
- This product is RoHS compliant.

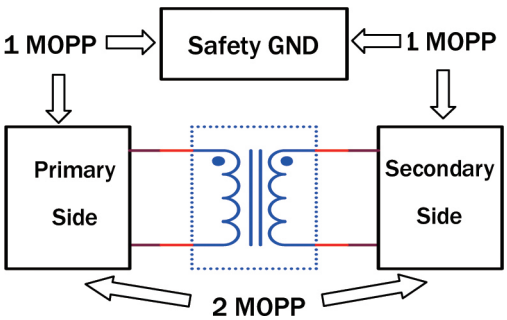
Power Derating Curve



Max. Load Fan Location



Medical Isolation Grade



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