THE RELIABLE SOURCE

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3.7" x 6.6" x 1.46"

General Specifications:

Input voltage	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz
Standby power	< 0.2W at no load
(remote off status)	< 0.5W at $5Vsb/40mA$ output
Inrush current	< 30/60A at 115/230VAC
Efficiency	90% typ.
Hold up time	18ms typ.
Over load/Short circuit protect	ion auto recovery
Over voltage protection	latch off
Operating temperature	20°C to 70°C
	derating: $2.5\% / ^{\circ}\text{C} > 50 ^{\circ}\text{C}$

Features:

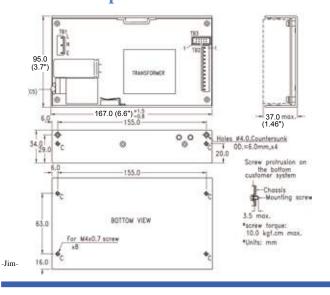
- Surge load (3 x rated current, Vo>60% typical for 1 sec)
- Peak load $(1.5 \sim 2 \text{ x rated current}, \text{Vo=rated for 5 sec})$
- Design for BF application
- Convection cooling for Rated power
- With +5Vsb & +12V Fan output
- Remote on/off & remote sense
- Fan speed controlled by loading
- EMI class B
- -20°C to +70°C operating temperature
- 5,000m operation altitude

Applications:

- For peak load and surge load applications, such as active speaker and audio power amplifier, motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For EMI class B application, such as home healthcare device, and other medical devices.

Cooling	
	420W at forced air cooling
Storage temperature	e40°C to +85°C
EMI	EN55022 "B", EN61000-3-3
Harmonics	EN61000-3-2, class D
	EN61000-4-2,-3,-4,-5,-6,-8,-11
SafetyUL/CS	SA 60950-1, 2 nd Ed., EN 62368-1, 2 nd Ed.
	ANSI/AMMI/CSA/EN60601-1, 3.1 Ed.
Energy Saving	ENERGY STAR
	for computers version 6.0
	for displays version 6.0
	ErP regulation EC(No) 1275/2008

Mechanical Specifications:



Notes:

- - 3.7" x 6.6" x 1.46"
- Mounting Hole: Side edge: 155 x 29 (mm) Bottom: 155 x 63 (mm)
- Connectors:

AC input: Using JST B5P-VH withdraw 2 pins or equivalent DC output: Using JST B12P-VH or equivalent Remote ON/OFF & Standby Output & Fan output & Remote Sense: 2 x 5 (10 pins) 0.1 pitch

Output Pin assignment (TB2): Function Pin assignment (TB3):

1 ~ 6	7 ~ 12
Vo	GND

Tanetion Tin assignment (TB							
Pin 1	+5VSB	Pin 2	+5VSB GND				
3	+FAN	4	-FAN				
5	PG/PF	6	PG/PF GND				
7	RM GND	8	RM ON/OFF				
0	ne	10	· D.C				

Packing:

Net weight: 660 g approx. / unit Gross weight: 15.5 kg approx. / carton, 20 units / carton Carton size (mm): 453 (L) x 362 (W) x 279 (H)

10 years Warranty (contact Skynet's Distributors for details)



Medical & ITE General Purpose

Rated 300W Max. 420W Peak 600W SNP-P30x-S Series

Output Specifications:

MODEL	OUTPUT	LOAD		INITIAL STEP EFFICIENCY			AVERAGE			
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	EFFICIENCY
SNP-P307-S	+12V +5Vsb	0A 0A	25A 1A	35A 1.5A		+11.9V~+12.1V +4.5V~+5.5V	87%	90.5%	91%	89%
SNP-P309-S	+24V +5Vsb	0A 0A	12.5A 1A	17.5A 1.5A		+23.9V~+24.1V +4.5V~+5.5V	87%	91%	91.5%	89%
SNP-P30H-S (ITE only)	+60V +5Vsb	0A 0A	5A 1A	7A 1.5A		+59.1V~+60.1V +4.5V~+5.5V	87%	91%	92%	90%

Note:

1. Standby Power Cosumption with System:

For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.

2. Output Load:

300W for convection cooling; 420W for forced air cooling.

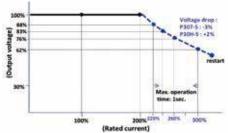
3. Peak Load Duration:

Peak 600W can last for 5 sec.

4. High Torque Output Current:

For motor drive or audio amplifier, the output current can be up to 300% rated current within 1000ms, and output voltage can keep above 60% Voltage.

Example: SNP-P309-S



5. Isolation Grade:

 $\begin{array}{lll} \text{Primary} & \longleftrightarrow & \text{Ground} & : 1\text{MOPP} (1500\text{Vac}) \\ \text{Primary} & \longleftrightarrow & \text{Secondary} & : 2\text{MOPP} (4000\text{Vac}) \\ \text{Secondary} & \longleftrightarrow & \text{Ground} & : 1\text{MOPP} (1500\text{Vac}) \end{array}$

6. Leakage Current:

Earth leakage current < 300uA

Touch current < 100uA Model Selection:

SNP-P307-S and SNP-P309-S are for ITE & medical applications.

SNP-P30H-S is only for ITE application.

-Jim-

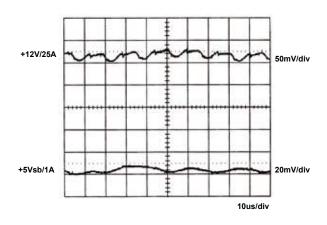


Medical & ITE General Purpose

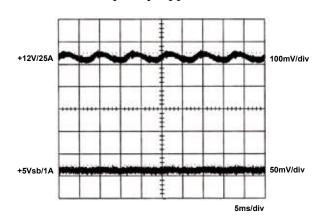
Rated 300W Max. 420W Peak 600W SNP-P30x-S Series

Performance for SNP-P307-S:

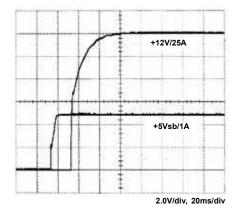
1. Switching frequency ripple



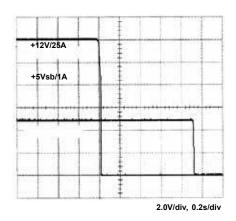
2. Line frequency ripple



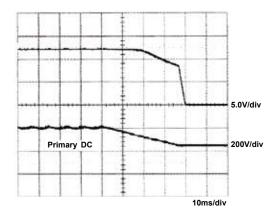
3. Output turn on wave form



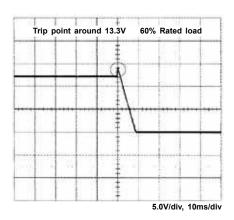
4. Output turn off wave form



5. Hold-up time



6. +12V Over voltage protection



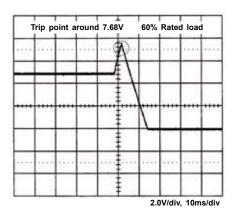
-Jim-



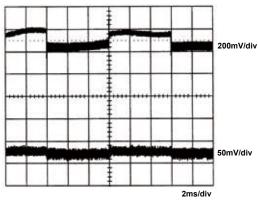
Medical & ITE General Purpose

Rated 300W Max. 420W Peak 600W SNP-P30x-S Series

7. +5Vsb step response

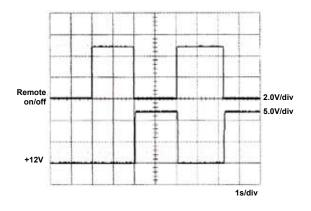


8. +12V step response

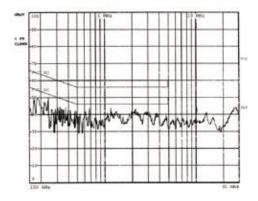


+12V step from 5A to 25A +5Vsb/0.6A

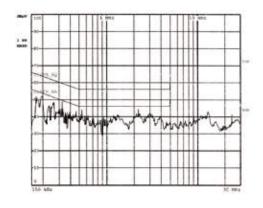
9. Remote on/off



10. FCC B



11. EN55011 B



12. Power derating curve

