

General Purpose (Universal)

PFC + 100W SNP-U10 Series



General Specifications:

Input voltage	
Input frequency	47 Hz to 63 Hz
Inrush current (cold start)	
	60A at 230VAC
Efficiency	
Hold up time	>20 ms
	at rated load and 115VAC
Over load protection	auto recovery

Description:

The SNP-U10 series is a 100 watts convection cooling and in U-shape chassis switching power supply.

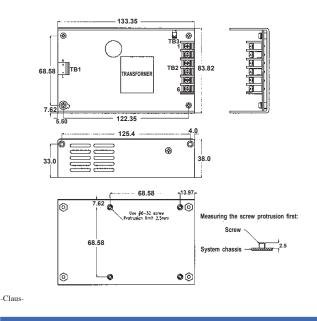
With patent granted soft-switching topology, low-profile height fit 1U constraints and high efficiency. It is designed for use in general purpose.

Model available:

- SNP-U101 for 5V/10A, 12V/4A, -12V/0.3A
- SNP-U106 for 5V/16A, 12V/1A
- SNP-U107 for 12V/8A, 5V/1A
- SNP-U109 for 24V/4A, 5V/1A
- SNP-U10T for 48V/2A, 5V/1A

Short circuit protection auto recovery
Over voltage protection latch off
Operating temperature 0°C to 50°C
Cooling free air convection
Storage temperature40°C to $+85^{\circ}C$
EMI meet FCC 20780 "B", EN55022 "B"
Harmonics EN61000-3-2 class D
EMS EN61000-4-2,-3,-4,-5,-6,-11

Mechanical Specifications:



Notes:

1. Dimensions shown in mm as left. Tolerance: ± 0.4 mm between mounting holes, and ± 0.8 mm for other dimension.

2. Size:

83.82 X 133.35 X 38 (mm) 3. Packing:

Net weight: 420 g approx. / unit Gross weight: 12 kg approx. / carton, 24 units / carton Carton size (mm): 360 (L) x 276 (W) x 379 (H)
Connector: TB1 -- AC input : Molex 5273-X withdraw 2 pins or equivalent

TB1 -- AC input : Molex 52/3-X withdraw 2 pins or equivalent TB2 -- DC output : Terminal blocks



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5. DC output Pin Assignment

Model No.	1	2	3	4	5	6
SNP-U101	+5V	+5V	GND	GND	+12V	-12V
SNP-U106	+5V	+5V	GND	GND	+12V	
SNP-U107	+12V	+12V	GND	GND	+5V	
SNP-U109	+24V	+24V	GND	GND	+5V	
SNP-U10T	+48V	+48V	GND	GND	+5V	

Output Specifications:

MODEL	OUTPU	LOAD		VOLTAGE	RIPPLE	LINE	LOAD	
NO.	RAIL	MIN.	RATED	MAX.	ACCURACY	NOISE	REG.	REG.
SNP-U101	+5V	1A	10A	16A	+4.9V~+5.1V	50mVpp	±1%	±1%
	+12V	0.5A	4A	5A	+11.25V~+12.75V	100mVpp	±1%	±3%
	-12V	0A	0.3A	0.5A	-11.0V~-12.0V	100mVpp	±1%	±3%
SNP-U106	+5V +12V	2A 0A	16A 1A	20A 2A	+4.9V~+5.10V +11.25V~+12.75V	50mVpp 100mVpp	±1% ±1%	±1% ±1%
SNP-U107	+12V +5V	0A 0A	8A 1A	10A 2A	+11.8V~+12.2V +4.75V~+5.25V	100mVpp 50mVpp	±1% ±1%	±1% ±1%
SNP-U109	+24V +5V	0A 0A	4A 1A	5A 2A	+23.76V~+24.24V +4.75V~+5.25V	100mVpp 50mVpp	±1% ±1%	±1% ±1%
SNP-U10T	+48V +5V	0A 0A	2A 1A	2.3A 2A	+47.6V~+48.4V +4.75V~+5.25V	100mVpp 50mVpp	±1% ±1%	±1% ±1%

Note:

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. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal 5. 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.

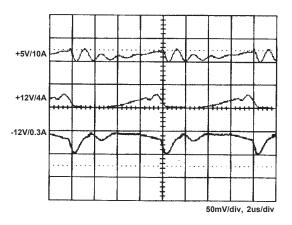
7. Efficiency is measured at rated load and nominal line.

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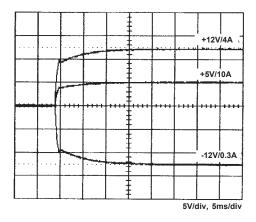


Performance for SNP-U101 (input voltage is 115VAC, unless others specified):

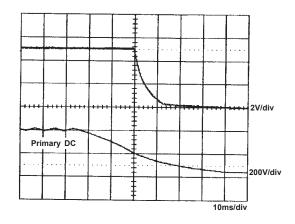
1. Switching frequency ripple



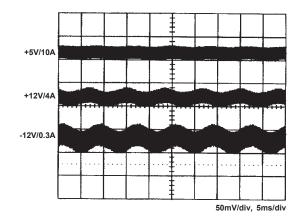
3. Output turn on wave form



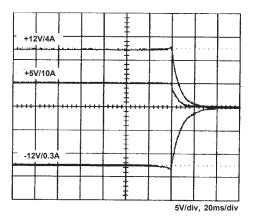
5. Hold-up time



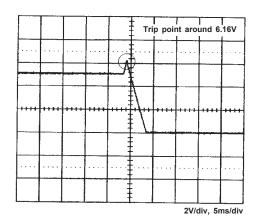
2. Line frequency ripple



4. Output turn off wave form



6. Over voltage protection

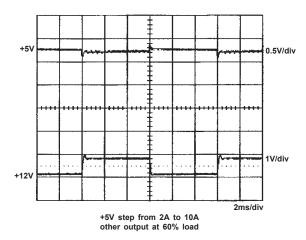


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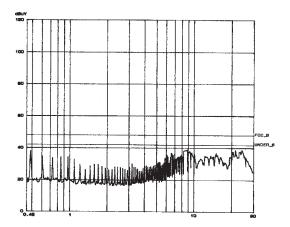


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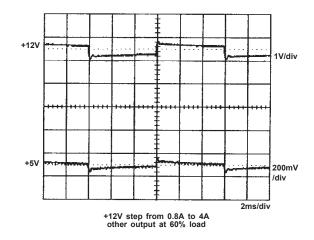
7. +5V step response



9. FCC B



8. +12V step response



10. CISPR 22 B

