

# 40~80W SNP-NXXX Series



### **Description:**

The SNP-NXXX series is 40W~80W, universal input switching mode power supply, which is designed specially for the application of Net Work. It is with the following safety approvals.

1) UL, C-UL file number : E207942 E132267 2) TUV file number : R2054977.01 R9853104.01 R2056537.01

#### Model available:

- SNP-N063 for 5V/4A, 3.3V/13A
- SNP-N563 for 3.3V/6A, 5V/8A
- SNP-Z873 for 3.3V/24A, 12V/0.8A

### **General Specifications:**

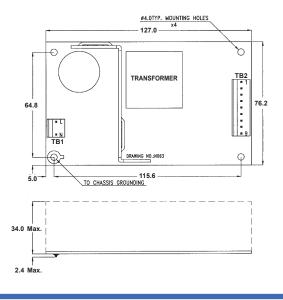
Input voltage	85VAC to 264VAC
Input frequency	47Hz to 63Hz
Inrush current (cold start)	less than 30A at 115VAC
	less than 60A at 230VAC
Efficiency	>70%
	at rated load and 115VAC
Hold up time	20mS typ. at 115VAC
Over load protection	auto recovery
Short circuit protection	auto recovery

Over voltage protection	crowbar
Operating temperature	0 to 50°C, rated load
Cooling	free air convection
Storage temperature	20°C to +85°C
Ripple and noise	<1%
EMI conduction standard	CISPR 22 "B"
	FCC Class "B"
Safety	meet UL 1950
	CSA C22.2 No. 243
	VDE EN 60950

# **Mechanical Specifications:**

SNP-N063

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#### Note:

- Dimensions shown in mm (inch) as left.
   Tolerance specified is ±0.4mm between mounting holes, and ±0.8mm for other
  dimension.
- 2. Size: SNP-N063,-N563 76.2 X 127 X 32 ~ 38 (mm) 3 X 5 X 1.25 ~ 1.5 (inch) SNP-Z873 80 X 152.5 X 29.6 (mm)
- 3. Mounting holes: 64.8 X 115.6 (mm)
- 2.55 X 4.55 (inch)

  4. Packing:
  Net weight: 160 g approx. / unit
  Gross weight: 10 kg approx. / cai
- Gross weight: 10 kg approx./ carton, 48 units / carton Carton size (mm): 397 (L) x 339 (W) x 327 (H)

  Connectors:
  - TB1 -- Molex 5277-02A or equivalent for SNP-N063 Molex 5273-05A withdraw 2 pins or equivalent for SNP-N563 TB2 -- Molex 5273-10A or equivalent for SNP-N563
  - Molex 5273-09A or equivalent for SNP-N063 TB3 -- For FAN use only



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TB2 Assignment

Pin Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SNP-N063	+5V	+3.3V	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND					
SNP-N563	+5V	+5V	+5V	GND	GND	GND	GND	+3.3V	+3.3V	+3.3V				
SNP-Z873	Power fail	+12V	NC	GND	GND	GND	GND	GND	+3.3V	+3.3V	+3.3V	+3.3V	+3.3V	Remote sense +

# **Output Specifications:**

OUTPUT	LOAD		VOLTAGE	RIPPLE	LINE	LOAD	
RAIL	MIN.	RATED PEAK		ACCURACY	NOISE	REG.	REG.
+5V	0A	4 A		+4.75V~+5.30V	50mV	±1%	±5%
+3.3V	1A	13A		+3.20V~+3.40V	50mV	±1%	±2%
+3.3V	0.5A	6A		+3.20V~+3.40V	50mV	±1%	±3%
+5V	0.5A	8A		+4.75V~+5.25V	50mV	±1%	+5%
+3.3V	0.5A	24A		+3.25V~+3.35V	50mV	±1%	±1%
+12V	0A	0.8A		+11.00V~+13.00V	120mV	±2%	±5%
	+3.3V +3.3V +3.3V +3.3V	RAIL MIN.  +5V 0A  +3.3V 1A  +3.3V 0.5A  +5V 0.5A	RAIL         MIN.         RATED           +5V         0A         4A           +3.3V         1A         13A           +3.3V         0.5A         6A           +5V         0.5A         8A           +3.3V         0.5A         24A	RAIL         MIN.         RATED         PEAK           +5V         0A         4A           +3.3V         1A         13A           +3.3V         0.5A         6A           +5V         0.5A         8A           +3.3V         0.5A         24A	RAIL         MIN.         RATED         PEAK         ACCURACY           +5V         0A         4A         +4.75V~+5.30V           +3.3V         1A         13A         +3.20V~+3.40V           +3.3V         0.5A         6A         +3.20V~+3.40V           +5V         0.5A         8A         +4.75V~+5.25V           +3.3V         0.5A         24A         +3.25V~+3.35V	RAIL         MIN.         RATED         PEAK         ACCURACY         NOISE           +5V         0A         4A         +4.75V~+5.30V         50mV           +3.3V         1A         13A         +3.20V~+3.40V         50mV           +3.3V         0.5A         6A         +3.20V~+3.40V         50mV           +5V         0.5A         8A         +4.75V~+5.25V         50mV           +3.3V         0.5A         24A         +3.25V~+3.35V         50mV	RAIL         MIN.         RATED         PEAK         ACCURACY         NOISE         REG.           +5V         0A         4A         +4.75V~+5.30V         50mV         ±1%           +3.3V         1A         13A         +3.20V~+3.40V         50mV         ±1%           +3.3V         0.5A         6A         +3.20V~+3.40V         50mV         ±1%           +5V         0.5A         8A         +4.75V~+5.25V         50mV         ±1%           +3.3V         0.5A         24A         +3.25V~+3.35V         50mV         ±1%

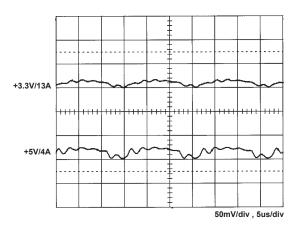
#### **Notes:**

- 1. Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- 2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- 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 ±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 drop down to regulation limit at rated load and nominal line.
- 7. Rated load is maximum loading for flat mounting and free air convection cooling.

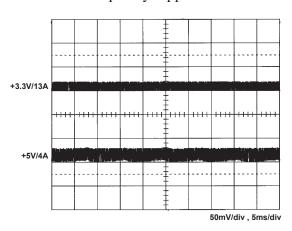
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#### **Performance for SNP-N063:**

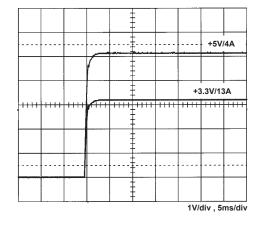
# 1. Switching frequency ripple



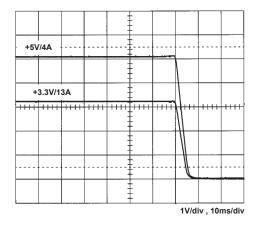
### 2. Line frequency ripple



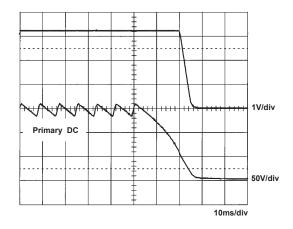
### 3. Output turn on wave form



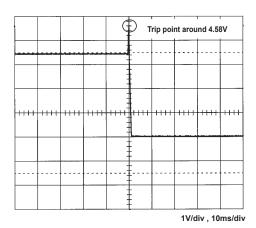
4. Output turn off wave form



#### 5. Hold-up time



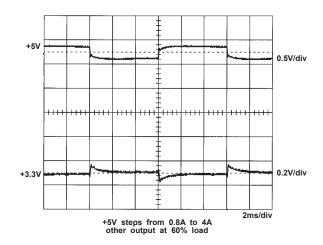
6. Over voltage protection



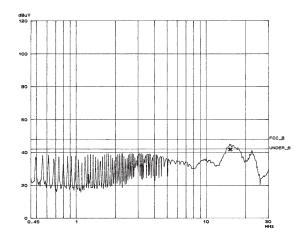
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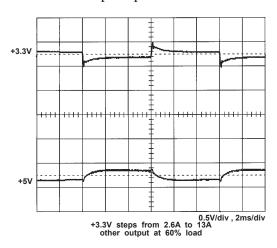
# 7. +5V step response



#### 9. FCC B



# 8. +3.3V step response



#### 10. CISPR 22B

