SNP-Z06 Series

65W AC/DC Power Supply Units for IT & Medical Applications

CoolPower Solutions

Description:

Open frame size of 3" X 5" has become an industrial standard for more than 10 years. The power density stays at 3.0 watts/cu.in. for a long time. Now, the SNP-Z06 series can offer up to 8.2 watts/cu.in. in 2" X 4" X 1.2" size at convection cooling. The safety conformity of SNP-Z06 series covers IT and medical applications. SNP-Z06 series is built with long-life components. For commodity application, ECO-Z06 series is the alternative.

Model available:

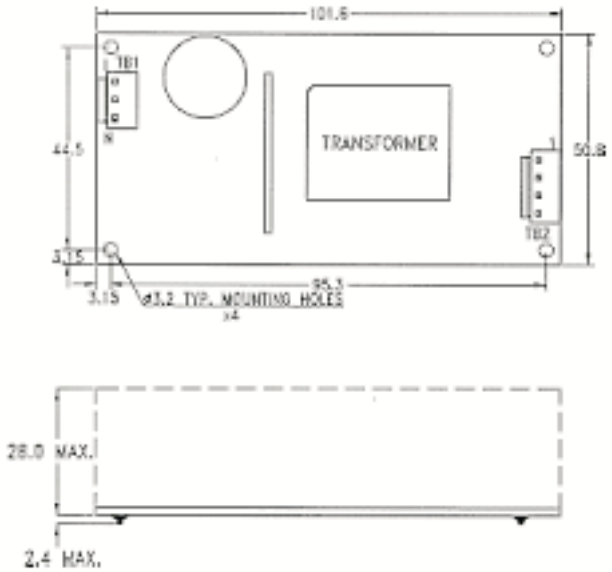
- SNP-Z061 for 5V/3A, 12V/3A, -12V/0.3A
- SNP-Z06D for 3.3V/5A, 5V/3A, 12V/0.7A
- SNP-Z063 for 5V/3A, 12V/3A
- SNP-Z066 for 5V/9A
- SNP-Z067 for 12V/5.4A
- SNP-Z068 for 15V/4.3A
- SNP-Z069 for 24V/2.7A
- SNP-Z06T for 48V/1.4A
- SNP-Z06B for 3.3V/10A

General Specifications:

Input voltage ..... 90VAC to 264VAC
Input frequency..... 47Hz to 63Hz
Inrush current ..... less than 30A at 115VAC
less than 60A at 230VAC
cold start, 25°C
Efficiency ..... 78%~87% depends on models
at rated load and 115VAC
Hold up time ..... 12mS typical
at rated load and 115VAC
Over load protection ..... auto recovery

Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Operating temperature ..... 0 to 60°C convection
derating: 2% / °C > 50 °C
Cooling ..... free air convection
Storage temperature ..... -40 °C to +85°C
EMI ..... FCC "B"
EN55022"B", EN55011"B"
EMS EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety ..... UL 60950, UL 2601
CSA 22.2 No.234, No. 601.1
EN 60950, EN 60601-1

Mechanical Specifications:



Notes:

1. Dimensions shown in mm (inch) as above.
   Tolerance: + -1mm (Excluding cables).
2. Size:
   101.6 X 50.8 X 30.4 (mm)
   4" X 2" X 1.2"
3. Connectors
   AC input : JST B2P3-VH or equivalent
   DC output : JST B4P-VH or equivalent for single output
   JST B7P-VH or equivalent for multiple outputs
4. Output Pin assignment

PIN NO.	1	2	3	4	5	6	7
SNP-Z061	-12V	+5V	+5V	GN	GND	+12V	+12V
SNP-Z06D	+12V	+5V	+5V	GND	GND	+3.3V	+3.3V
SNP-Z063	NC	+5V	+5V	GND	GND	+12V	+12V
SNP-Z066	+5V	+5V	GND	GND			
SNP-Z067	+12V	+12V	GND	GND			
SNP-Z068	+15V	+15V	GND	GND			
SNP-Z069	+24V	+24V	GND	GND			
SNP-Z06T	+48V	+48V	GND	GND			
SNP-Z06B	+3.3V	+3.3V	GND	GND			

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Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-Z061	+5V +12V -12V	0A 0A 0A	3A 3A 0.3A		5A 5A	+4.95V~+5.05V +11.4V~+12.6V -11.4V~-12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%
SNP-Z06D	+3.3V +5V +12V	0A 0A 0A	5A 3A 0.7A	7A 5A		+3.2V~+3.4V +4.75V~+5.25V +11.4V~+12.6V	50mV 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%
SNP-Z063	+5V +12V	0A 0A	3A 3A		5A 5A	+4.95V~+5.05V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±3%
SNP-Z066	+5V	0A	9A			+4.95V~+5.05V	±0.5%	±0.5%	±0.5%
SNP-Z067	+12V	0A	5.4A		7.5A	+11.88V~+12.12V	±0.5%	±0.5%	±0.5%
SNP-Z068	+15V	0A	4.3A		6A	+14.85V~+15.15V	±0.5%	±0.5%	±0.5%
SNP-Z069	+24V	0A	2.7A		3.7A	+23.75V~+24.24V	±0.5%	±0.5%	±0.5%
SNP-Z06T	+48V	0A	1.4A			+47.6V~+48.4V	±0.5%	±0.5%	±0.5%
SNP-Z06B	+3.3V	0A	10A			+3.26V~+3.33V	50mV	±0.5%	±0.5%

Note:

1. The peak load can be temporarily provided up to 90W output and 8 seconds duration. The maximum and continuous combinational load of SNP- Z06D for +3.3V & +5V is 35W.
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 ±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 a t rated load and nominal line. For SNP-Z066 and SNP-Z06B, one extra 47uF electrolytic capacitor should be added.
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.

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