SNP-Z07 Series

75W AC/DC Power Supply Units - IT & Medical

CoolPower Solutions

Description:

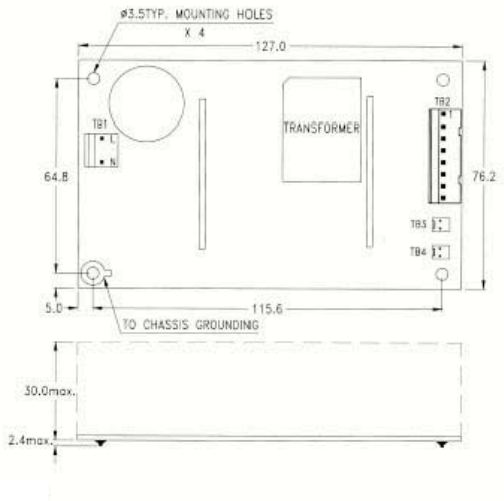
SNP-Z07 is a state-of art from the ZVS series. It offers the advantages with 10W more and 10% increased efficiency compared with hard switching topology. Provide 75W rated, 120W peak for 8 sec. in 1U height 3" by 5" size. The safety conformity of SNP-Z07 series covers IT and medical application. SNP-Z07 series is built with long-life components. For commodity application, the ECO-Z07 series is the alternative.

General Specifications:

Input voltage .....90VAC to 264VAC
Input frequency.....47Hz to 63Hz
Inrush current ..... less than 30A at 115VAC
(Cold start) less than 60A at 230VAC
Outputs .....see output table
Efficiency ..... 78%~87% depends on models
at rated load and 115VAC
Hold up time ..... longer than 20ms
at rated load and 115VAC
Over load protection ..... auto recovery
Short circuit protection ..... auto recovery
Leakage current ..... < 300uA

Over voltage protection ..... latch off
Remote sense ..... compensate for 0.5V load drop min.
Operating temperature (open frame type) ..... 0 to 70 °C
derating : 2.5%/ °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
Harmonics ..... EN61000-3-2 class "A"
Safety .....UL 60950, 2601
CSA 22.2 No.234, 601.1
EN 60950, 60601-1

Mechanical Specifications:



Notes:

1. Dimensions shown in mm (inch) as above. Tolerance specified is + - 1mm.
2. Size:
   76.2 X 127 X 32.4 mm
   3" X 5" X 1.28"
3. Mounting holes:
   64.8 X 115.6 mm
   2.551" X 4.551"
4. Connectors
   a) TB1 - AC input : Molex 5277-2 or equivalent for all models
   b) TB2 - DC output : Molex 5273-8 or equivalent for all models
   c) TB3 - for LED : Molex 5045-2 or equivalent for SNP-Z071, -Z073, -Z077, -Z078, -Z079, -Z07E
      TB4 - for FAN
   d) TB3 - for LED : Molex 5045-2 or equivalent for SNP-Z076, -Z07B
      TB4 - for Remote sense
   e) TB3 - for LED : Molex 5045-2 or equivalent for SNP-Z07T

TB2 Pin assignment:

PIN NO.	1	2	3	4	5	6	7	8
SNP-Z071	+5V	+5V	GND	GND	+12V	+12V	-12V	NC
SNP-Z073	+5V	+5V	GND	GND	GND	GND	+12V	+12V
SNP-Z076	+5V	+5V	+5V	+5V	GND	GND	GND	GND
SNP-Z077	+12V	+12V	+12V	GND	GND	GND	GND	+5V
SNP-Z078	+15V	+15V	+15V	GND	GND	GND	GND	+5V
SNP-Z079	+24V	+24V	+24V	GND	GND	GND	GND	+5V
SNP-Z07T	+48V	+48V	+48V	GND	GND	GND	GND	+5V
SNP-Z07B	+3.3V	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND
SNP-Z07E	+3.3V	+3.3V	GND	GND	+5V	+5V	-12V	+12V

** This catalogue is only for model selection. For business, engineering specification by model is necessary.

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Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-Z07	+5V	0A	3.5A	5A	+4.95V~+5.05V	1%	±1%	±3%
	+12V	0A	3.5A	9A	+11.4V~+12.6V	1%	±1%	±3%
	-12V	0A	0.3A		-11.4V~-12.6V	1%	±1%	±5%
SNP-Z073	+5V	0A	3.5A	5A	+4.95V~+5.05V	1%	±1%	±3%
	+12V	0A	4A	9A	+11.4V~+12.6V	1%	±1%	±3%
SNP-Z076	+5V	0A	14A		+4.95V~+5.05V	1%	±1%	±1%
SNP-Z077	+12V	0A	5.6A	9A	+11.88V~+12.12V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75V~+5.25V	1%	±1%	±1%
SNP-Z078	+15V	0A	4.8A	8A	+14.85V~+15.15V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75V~+5.25V	1%	±1%	±1%
SNP-Z079	+24V	0A	3A	5A	+23.76V~+24.24V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75V~+5.25V	1%	±1%	±5%
SNP-Z07T	+48V	0A	1.6A		+47.6V~+48.4V	1%	±1%	±1%
SNP-Z07B	+3.3V	0A	15A		+3.26V~+3.33V	50mV	±1%	±1%
SNP-Z07E	+3.3V	0A	6A	10A	+3.2V~+3.4V	50mV	±1%	±3%
	+5V	0A	4A	7A	+4.75V~+5.25V	1%	±1%	±3%
	+12V	0A	2A		+11.4V~+12.6V	1%	±1%	±5%
	-12V	0A	0.6A		-11.4V~-12.6V	1%	±1%	±5%

Note:

1. For SNP-Z07E, +3.3V and +5V can provide up to peak load continuously but the maximum combination load should be less than 45W In other models, peak load can be provided temporarily and 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 ± 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 trated load and nominal line. For SNP-Z07B and SNP-Z076, one extra 39uF 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.
7. Rated load is maximum loading for flat mounting and free air convection cooling.
8. +5V output can be optional for SNP-Z077, -Z078, -Z079.

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