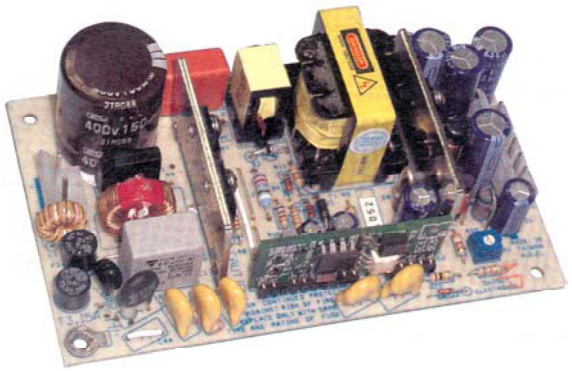
General Purpose (Universal)

60 W
SNP-Z06 Series



Description :

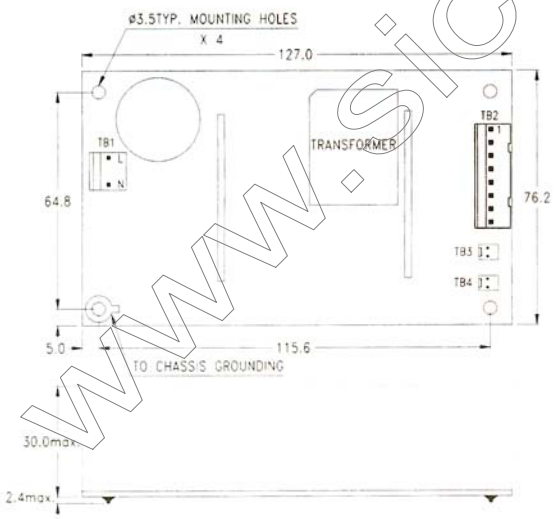
SNP-Z06 series is a 65 Watts, universal input switching mode power supply. With patented Ring-free ZVS topology, low-profile heights fits 1U constraint and higher efficiency is achieved. It is various output options. SNP-Z063 is intended for disk drive application. SNP-Z067, SNP-Z068, and SNP-Z069 are intended for power device like motor or solenoid application. SNP-Z066, SNP-Z06B, and SNP-Z06D are intended for telecommunication application.

General specifications :

Input voltage.....85VAC to 270VAC
Input frequency.....47 Hz to 63 Hz
Inrush current.....less than 30A at 115VAC
(Cold start) less than 60A at 230VAC
Outputs.....see output table
Efficiency.....80%~90% depends on models
at rated load and 115VAC
Hold up time.....longer than 16ms
at rated load and 115VAC
Over load protection.....auto recovery
Short circuit protection.....auto recovery

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 conduction standard.....FCC "B"
EN 55022"B"
EMS.....EN61000-4-2,-4,-5,-6,-11
Harmonics.....EN61000-3-2 class "A"
Safety.....UL 60950
CSA 22.2 No.234

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 FAN : Molex 5045-2 or equivalent for SNP-Z061, -Z063, -Z067, Z069
      TB4 - for LED
   d) TB3 - for LED : Molex 5045-2 or equivalent for SNP-Z066, , -Z06B, -Z06D
      TB4 - for Remote sense

TB2 Pin assignment:

PIN NO.	1	2	3	4	5	6	7	8
SNP-Z061	+5V	+5V	GND	GND	+12V	+12V	-12V	NC
SNP-Z063	+5V	+5V	GND	GND	GND	GND	+12V	+12V
SNP-Z066	+5V	+5V	+5V	+5V	GND	GND	GND	GND
SNP-Z067	+12V	+12V	+12V	GND	GND	GND	GND	+5V
SNP-Z068	+15V	+15V	+15V	GND	GND	GND	GND	+5V
SNP-Z069	+24V	+24V	+24V	GND	GND	GND	GND	+5V
SNP-Z06T	+48V	+48V	+48V	GND	GND	GND	GND	+5V
SNP-Z06B	+3.3V	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND
SNP-Z06D	+5V	+5V	+3.3V	+3.3V	GND	GND	GND	+12V

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Output specifications :

MODEL NO.	OUTPUT RAIL	LOAD MIN.	LOAD RATED	LOAD PEAK	VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
SNP-Z061	+5V +12V -12V	0A 0A 0A	3.5A 4A 0.3A	5A 11A	+4.95V~+5.05V +11.4V~+12.6V -11.4V~-12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%
SNP-Z063	+5V +12V	0A 0A	3.5A 4A	5A 11A	+4.95V~+5.05V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±5%
SNP-Z066	+5V	0A	13A		+4.95V~+5.05V	1%	±1%	±1%
SNP-Z067	+12V +5V	0A 0A	5A 0.5A	12A	+11.88V~+12.12V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±5%
SNP-Z068	+15V +5V	0A 0A	4A 0.5A	10A	+14.85V~+15.15V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±5%
SNP-Z069	+24V +5V	0A 0A	2.5A 0.5A	6A	+23.76V~+24.24V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±5%
SNP-Z06T	+48V +5V	0A 0A	1.4A 0.5A		+47.6V~+48.4V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±5%
SNP-Z06B	+3.3V	0A	16A		+3.26V~+3.33V	50mV	±1%	±1%
SNP-Z06D	+3.3V +5V +12V	0A 0A 0A	6A 4A 0.5A	10A 8A	+3.2V~+3.4V +4.75V~+5.25V +11.4V~+12.6V	50mV 1% 1%	±1% ±1% ±1%	±1% ±5% ±5%

Note :

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 ± 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 are measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0,47yF 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.
8. +5V output can be optional for SNP-Z067, -Z068, -Z069, Z06T.