SNP-Y06 Series

60 W AC/DC Switch Mode Power Supplies - Medical

CoolPower Solutions

- Medical ja ITE sovelluksiin
- Korkeus vain 1.28”
- 4.2W / kuutiotuuma
- Edulliset asennuskulut yksipuoleisen kortin ansiosta
- Hyötysuhde 78%...87%
- Käyttölämpötila-alue 0°C…70°C

- With Medical & ITE safety
- Only 1.28 inch height
- 4.2W / cubic inch
- Single side PCB for low assembly cost
- Efficiency between 78% to 87%
- Operation from 0°C to 70°C by convection

Tekniset tiedot

Tulojännite:	
Tulotaajuus:	
Syöksyvirta:	
Lähtöjännite:	
Maks. teho:	
Maks. virta:	
Kuormaregulointi:	
Linjaregulointi:	
Lämpötila-alue:	
Rippeli:	
Hyötysuhde:	
Pitoaika:	
Maavuotovirta:	
Ylikuormitussuojaus:	
Oikosulkusuojaus	
Ylijännitesuojaus:	
Jäähdytys:	
Varastointilämpötila:	
Sähköiset turvanormit:	
EMC standardit:	
• Emissio:	
• Immuniteetti:	
Mitat (PxLxK):	
Liitännät:	
Paino:	

Technical specifications

Input voltage:	90-264 VAC
Input Frequency:	47-63 Hz
Inrush Current:	< 60 A at 230 VAC cold start, 25ºC
Output voltage:	See table
Max. output power:	60 W, Peak 90 W
Max. load current:	See table
Load regulation:	See table
Line regulation:	± 1,0%
Temperature range:	0°C … +70°C Derating: 2,5%/°C>50
Ripple:	1%
Efficiency:	78% …87% see table (rated load and 115VAC)
Hold up time:	16ms typical
Earth leakage current:	< 300µA
Overload protection:	Auto recovery
Short Circuit Protection:	Auto recovery
Over Voltage protection:	Latch off
Cooling:	Free air convection
Storage temperature:	-40°C … +85°C
Electrical safety standard:	EN 60950-1, EN 60601-1, UL 60950-1, UL 60601-1 CSA C22.2 No. 60950-1, 601.1
EMC standards	
• Emission:	EN61000-4-2,-3,-4,-5,-6,-8,-11
• Immunity:	FCC”B”, EN 55022”B”, EN55011”B”
Dimensions (LxWxH):	114.3 x 63.5 x 32.4 mm
Connections:	AC input: JST B3P-VH DC output: JST B4P-VH JST B6P-VH for multiple outputs
Weight:	155 g

Jotkin tekniset arvot saattavat vaihdella muiden mallien ja jänniteversioiden osalta.

Some technical specifications may differ for other models and voltage versions.

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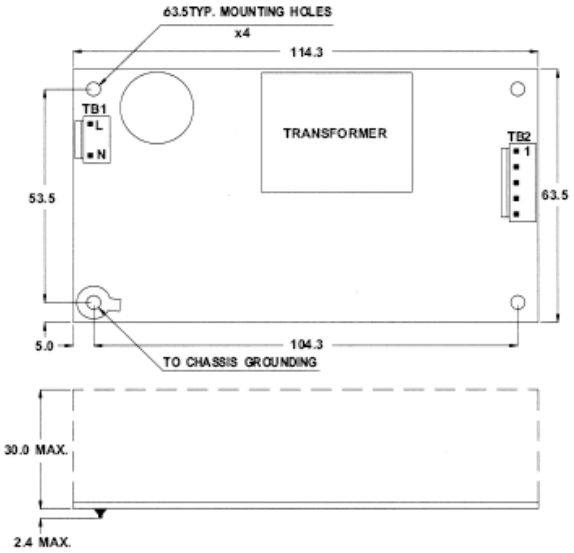
Mekaaniset tiedot – Mechanical Specifications



1. Dimensions shown in mm as left. Tolerance: ± 1 mm.
2. Size 63.5 x 114.3 x 32.4 mm. (2.5"x4.5"x1.28")
3. Connectors:
   AC input: JST B3P-VH or equivalent
   DC output: JST B4P-VH or equivalent for single
   JST B6P-VH or equivalent for multiple outputs
4. Output Pin assignment:

Pin no:	1	2	3	4	5	6
SNP-Y061	+5.0V	+5.0V	GND	GND	+ 12V	- 12V
SNP-Y06F	+5.0V	+5.0V	GND	GND	+ 24 V	+ 12V
SNP-Y066	+5.0V	+5.0V	+5.0V	GND	GND	GND
SNP-Y067	+ 12V	+ 12V	GND	GND	+5.0V	NC
SNP-Y067-1	+ 12V	+ 12V	GND	GND		
SNP-Y068	+ 15V	+ 15V	GND	GND	+5.0V	NC
SNP-Y068-1	+ 15V	+ 15V	GND	GND		
SNP-Y069	+ 24 V	+ 24 V	GND	GND	+5.0V	NC
SNP-Y069-1	+ 24 V	+ 24 V	GND	GND		
SNP-Y06T	+ 48V	+ 48V	GND	GND		

Jänniteversiot – Voltage versions

Malli Model	Lähtöjännite (VDC) Output voltage (VDC)		Kuormitus (A) Load (A)				Rippeli Ripple	Load reg. Regulointi	Hyötysuhde Efficiency
	Nimellinen Nominal	Tarkkuus Accuracy	Min	Rated	Max	Peak			Tyypillinen Typical
SNP-Y061	+5.0 V +12 V -12 V	+4.95V…+5.05V +11.4V…+12.6V -11.4V…-12.6V	0 A 0 A 0 A	3.0 A 3.0 A 0.3 A	5.0 A 4.0 A	5.0 A 4.0 A	1 % 1 % 1 %	± 3 % ± 3 % ± 5 %	82 %
SNP-Y06F	+5.0 V +24 V +12 V	+4.9V…+5.1V +22.8V…+25.2V +11.4V…+12.6V	0 A 0 A 0 A	3.0 A 1.5 A 0.3 A	5.0 A 2.0 A	7.0 A 3.0 A	1 % 1 % 1 %	± 3 % ± 3 % ± 3 %	83 %
SNP-Y066	+5.0 V	+4.95V…+5.05V	0 A	10 A		15 A	1 %	± 1 %	80 %
SNP-Y067	+12 V +5.0 V	+11.88V…+12.12V +4.75V…+5.25V	0 A 0 A	4.8 A 0.5 A		7.5 A 1.0 A	1 % 1 %	± 1 % ± 1 %	83 %
SNP-Y067-1	+12 V	+11.88V…+12.12V	0 A	5.0 A		7.5 A	1 %	± 1 %	84 %
SNP-Y068	+15 V +5.0 V	+14.85 V..+15.15 V +4.75 V…+5.25 V	0 A 0 A	3.8 A 0.5 A		6.0 A 1.0 A	1 % 1 %	± 1 % ± 1 %	83 %
SNP-Y068-1	+15 V	+14.85 V..+15.15 V	0.1 A	4.0 A		6.0 A	1 %	± 1 %	84 %
SNP-Y069	+24 V +5.0 V	+23.75V…+24.24V +4.75 V…+5.25 V	0.1 A 0 A	2.4 A 0.5 A		3.8 A 1.0 A	1 % 1 %	± 1 % ± 1 %	86 %
SNP-Y069-1	+24 V	+23.75V…+24.24V	0.1 A	2.5 A		3.8 A	1 %	± 1 %	87 %
SNP-Y06T	+48 V	+47.6V…48.4V	0 A	1.25 A		1.9 A	1 %	± 1 %	88 %

* Saatavilla myös DIN-kiskokiinnikkein
* Available with bracket for DIN-rail montage.

Huomioitavaa – Notes

1. At peak load, the output can last for 8 seconds without shut down.
2. The maximum combinational load of SNP-Y06D for +3.3V & +5V is 38W.
3. 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.
4. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
5. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
6. 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.
7. 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.
8. The efficiency is measured at nominal line and rated load.

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