General Purpose (Universal) 100W SNP-910 Series

Description:

SNP-910 series is a 100 watts,universal input switching mode power supply. It is designed to meet UL,CSA,VDE safety regulations and EMI FCC class "B"and Vfg.243/1991.

Model available:

* SNP-9100 for 5V/10A, 12V/3.5A, -12V/0.5A, -5V/0.5A
* SNP-9102 for 5V/15A, 12V/2A, -5V/2A
* SNP-9103 for 5V/4A, 12V/7A
* SNP-9105-6 for 5V/5A, 24V/2A, 12V/2A, -12V/0.3A
* SNP-9106 for 5V/20A
* SNP-9107 for 5V/1A, 12V/9A
* SNP-9109 for 5V/1A, 24V/4.5A

General Specifications:

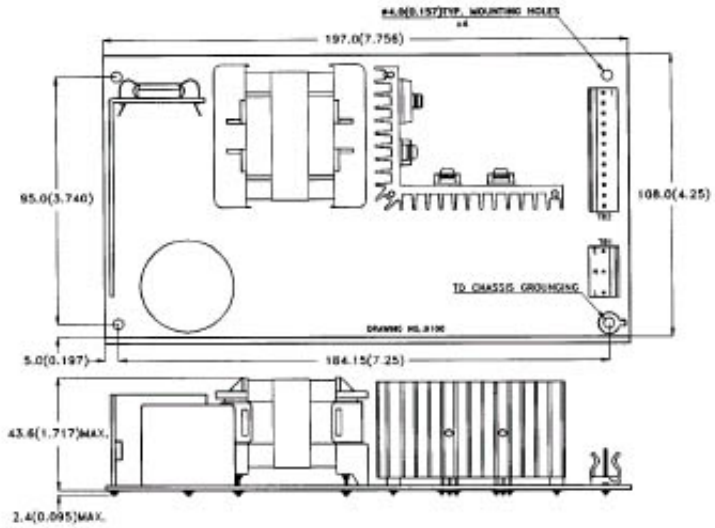
Input voltage.....90VAC to 260VAC
Input frequency..... 47Hz to 63Hz
Inrush current ..... less than 30A at 115VAC
(Cold start) ..... less than 60A at 230VAC
Outputs ..... see output table
Efficiency ..... higher than 70%
at rated load and 115VAC
Holdup time ..... >16m
Over load protection ..... latch off
Short circuit protection ..... latch off
Over voltage protection ..... latch off
Operating temperature (open frame type).....0 to 50 ^{o}C
(enclosed type) ..... 0 to 40oC
Cooling ..... Free air convection
Storage temperature.....-40 ^{o}C to +85 ^{o}C
EMI ..... FCC class "B"
Vfg 243/1991
Safety ..... UL 1950 D3
CSA 22.2 No.234, VDE EN60 950

Mechanical Specifications:

Notes:

1. Dimensions shown in mm (inch)as left.

SNP-9100



Tolerance specified is ± 0.4mm.

2. PCB Size:
   108.0 x 197.0 (mm)
   4.25 x 7.756 (inch)
3. Mounting holes:
   95 .0 x 184.15 (mm)
   3.74 x 7.25 (inch)
4. Connectors:
   AC input: Molex 5273-05A withdraw 2 pins or equivalent for all models
   DC output:
   a) Molex 5273-04A or equivalent for SNP-9103
   b) Molex 5273-10A or equivalent for SNP-9102, -9107, -9109
   c) Molex 5273-12A or equivalent for SNP-9100, -9105-6, -9106
   LED indicator : Molex 5045-02A or equivalent for SNP-9103
   Fan: Molex 5045-02A or equivalent for SNP-9103

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FEB.2001

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Page 1 of 4 *[next]*

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DC output pin assignment:

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12
SNP-9100	+5V	+5V	+5V	GND	GND	GND	+12V	+12V	-12V	GND	-5V	P.G.
SNP-9102	+5V	+5V	+5V	GND	GND	GND	GND	GND	+12V	-5V	--	--
SNP-9103	+12V	GND	GND	+5V	--	--	--	--	--	--	--	--
SNP-9105-6	+5V	+5V	+5V	GND	GND	GND	+24V	+24V	+12V	GND	-12V	P.G.
SNP-9106	+5V	+5V	+5V	+5V	+5V	GND	GND	GND	GND	GND	NC	P.G.
SNP-9107	+12V	+12V	+12V	+12V	GND	GND	GND	GND	+5V	P.G.	--	--
SNP-9109	+24V	+24V	+24V	+24V	GND	GND	GND	GND	+5V	P.G.	--	--

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-9100	+5V +12V -12V -5V	0A 0A 0A 0A	10A 3.5A 0.5A 0.5A	-- 8A -- --	+4.95~+5.05V +11.40~+12.60V -11.40~-12.60V -4.75~-5.25V	1% 1% 1% 1%	±1% ±1% ±1% ±1%	±1% ±3% ±3% ±3%
SNP-9102	+5V +12V -5V	0A 0A 0A	15A 2A 2A	20A 3A 3A	+4.95~+5.05V +11.4~+12.6V -4.75~-5.25V	1% 1% 2%	±1% ±2% ±2%	±1% ±5% ±5%
SNP-9103	+5V +12V	0A 0A	4A 7A	6A 15A	+4.95~+5.05V +11.88~+12.12V	1% 0.5%	±1% ±1%	±1% ±1%
SNP-9105-6	+5V +24V +12V -12V	0A 0A 0A 0A	5A 2A 2A 0.3A	8A 6A -- --	+4.95~+5.05V +22.8~+25.2V +11.4~+12.6V -11.4~-12.6V	1% 1% 1% 1%	±1% ±1% ±1% ±1%	±1% ±5% ±5% ±5%
SNP-9106	+5V	0A	20A	--	+4.75~+5.25V	1%	±1%	±1%
SNP-9107	+5V +12V	0A 0A	1A 9A	-- 15A	+4.75~+5.25V +11.88~+12.12V	1% 1%	±1% ±1%	±3% ±3%
SNP-9109	+5V +24V	0A 0A	1A 4.5A	-- 8A	+4.75~+5.25V +23.75~+24.24V	1% 1%	±1% ±1%	±3% ±3%

Notes:

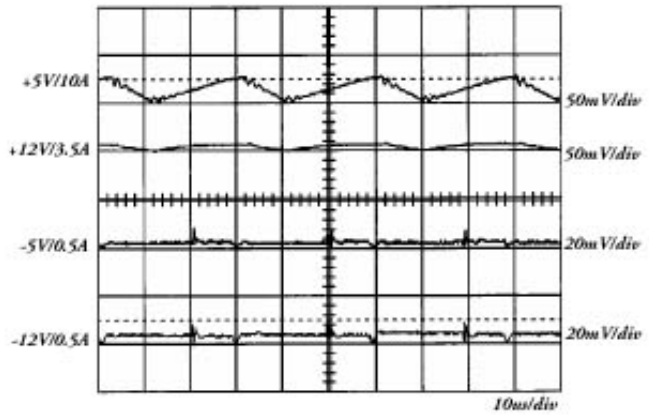
1. Each output can provide up to peak load temporarily.Continuous staying in more than rated load is not allowed.
2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is

setting to within the specified accuracy range at rated load.

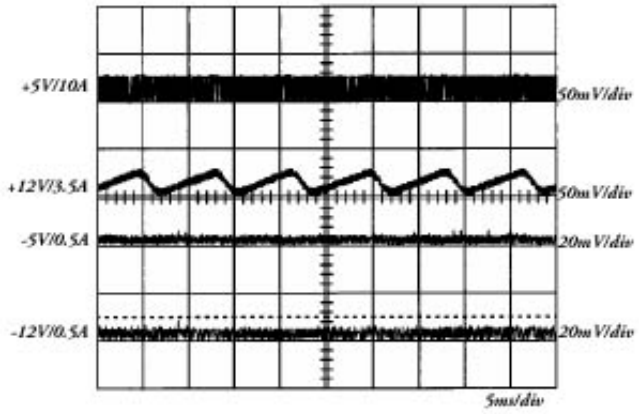
3. Line regulation is defined by changing +-10%of input voltage from nominal line at rated load.
4. Load regulation is defined by changing +-40%of measured output load from 60%rated load at another output set to 60%rated load.
5. Ripple &noise is measured by using 15MHz bandwidth limited oscilloscope 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 +5V output drop down to 4.75V at rated load and nominal line.
7. Rated load is maximum loading for flat mounting and free air convection cooling.

Performance for SNP-9100:

1.Switching frequency ripple



2.Line frequency ripple



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Page 2 of 4 [next]