

Description:

SNP-ECO 906 series is an alternative solution from the SNP-906 series. With the acceleration of renewing consumer products, like printer, DVD player, etc., the life time of 2~3 years is enough for such application. This approaches the birth of the ECONomical version with alternative materials, which is to serve high volume and low cost business.

Models available :

- **SNP ECO 9061** for 5V/3.5A, 12V/4A, -12V/0.3A
- **SNP ECO 9063** for 5V/3.5A, 12/4A
- **SNP ECO 9066** for 5V/13A
- **SNP ECO 9067** for 12V/5A, 5V/0.5A
- **SNP ECO 9068** for 15V/4A, 5V/0.5A
- **SNP ECO 9069** for 24V/2.5A, 5V/0.5A

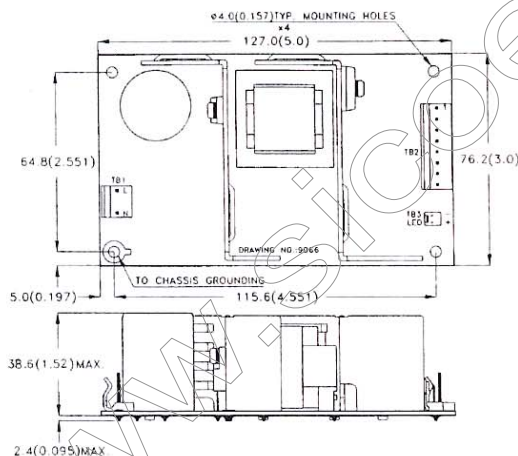
General Specifications:

Input voltage.....85VAC to 264VAC
 Input frequency.....47Hz to 63Hz
 Inrush currentless than 60A at 230VAC
 (cold start, 25 °C)
 Efficiencyhigher than 80% at rated load
 Hold-up timelonger than 16ms
 at rated load and 115VAC
 Over voltage protectionLatch off
 Short circuit protectionauto recovery

Over load protectionauto recovery
 Operating temperature.....0 to 50°C
 Coolingfree air convection
 Storage temperature.....-40°C to +85°C
 EMIFCC docket 20780 curve "B"
 EN55022 class "B"
 SafetyUL 1950 D3, CSA 22.2 No. 234
 TUV EN60950

Mechanical Specifications:

ECO-9066



Notes:

1. Dimensions shown in mm (inch) as above. Tolerance specified is + - 0.4mm.
2. PCB size: 76.2 X 127.0 mm 3" X 5"
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 ECO-9061, -9063, -9067, -9069
 - d) TB3 - for LED : Molex 5045-2 or equivalent for ECO-9066
 - e) TB4 - for LED : Molex 5045-2 or equivalent for ECO-9063, -9067, -9068, -9069

TB2 Pin assignment:

PIN NO.	1	2	3	4	5	6	7	8
ECO-9061	+5V	+5V	GND	GND	+12V	+12V	-12V	NC
ECO-9063	+5V	+5V	GND	GND	GND	GND	+12V	+12V
ECO-9066	+5V	+5V	+5V	+5V	GND	GND	GND	GND
ECO-9067	+12V	+12V	+12V	GND	GND	GND	GND	+5V
ECO-9068	+15V	+15V	+15V	GND	GND	GND	GND	+5V
ECO-9069	+24V	+24V	+24V	GND	GND	GND	GND	+5V



Output Specifications:

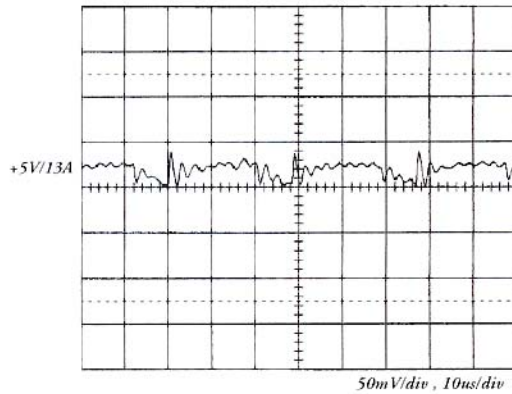
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
ECO-9061	+5V	0A	3.5A	5A	+4.95~+5.05V	1%	±1%	±3%
	+12V	0A	4A	11A	+11.4~+12.6V	1%	±1%	±3%
	-12V	0A	0.3A		-11.4~-12.6V	1%	±1%	±5%
ECO-9063	+5V	0A	3.5A	5A	+4.95~+5.05V	1%	±1%	±3%
	+12V	0A	4A	11A	+11.4~+12.6V	1%	±1%	±5%
ECO-9066	+5V	0A	13A		+4.95~+5.05V	1%	±1%	±1%
ECO-9067	+12V	0A	5A	12A	+11.88~+12.12V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%
ECO-9068	+15V	0A	4A		+14.85~+15.15V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%
ECO-9069	+24V	0A	2.5A	6A	+23.76~+24.24V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%

Note:

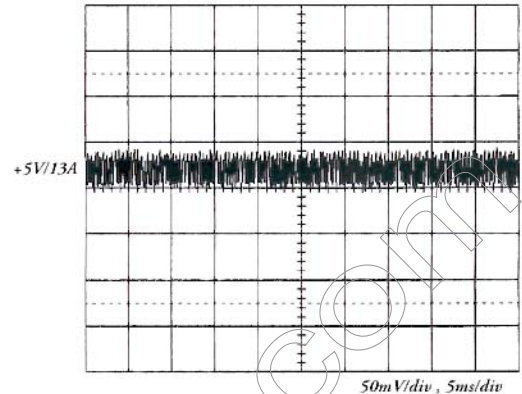
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
- 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.
- 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.
- Rated load is maximum loading for flat mounting and free air convection cooling.
- Performance of turn on peak power is shown in figure 9, page 4-4. Rising edge means power on, falling edge means over load protection happened.

Performance for ECO-9066:

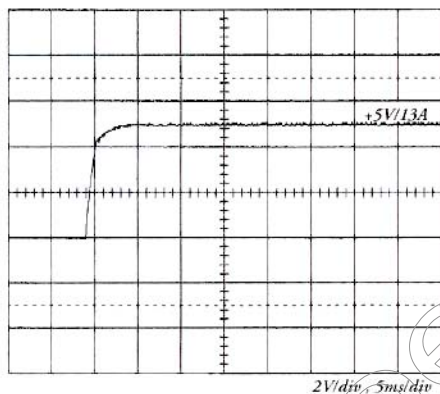
1. Switching frequency ripple



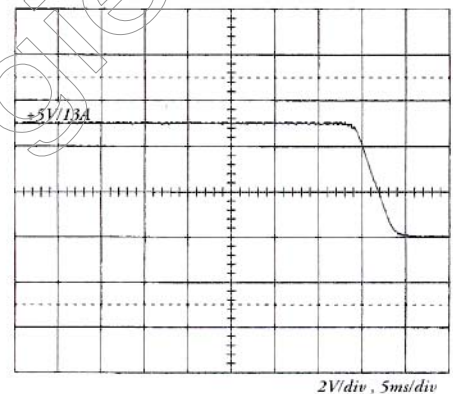
2. Line frequency ripple



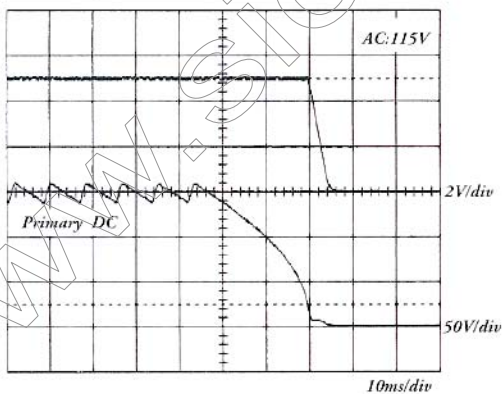
3. Output turn on wave form



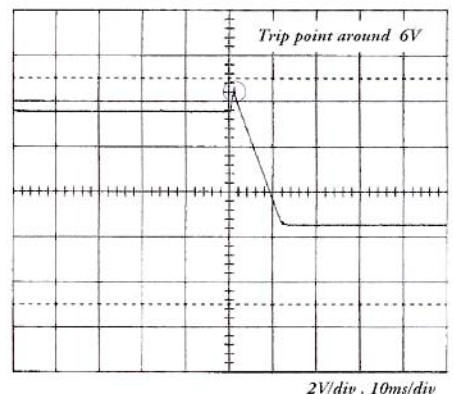
4. Output turn off wave form



5. Hold-up time

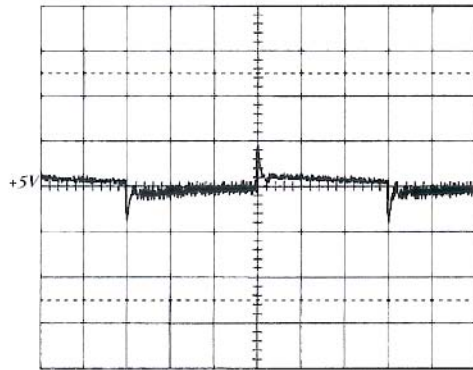


6. Over voltage protection



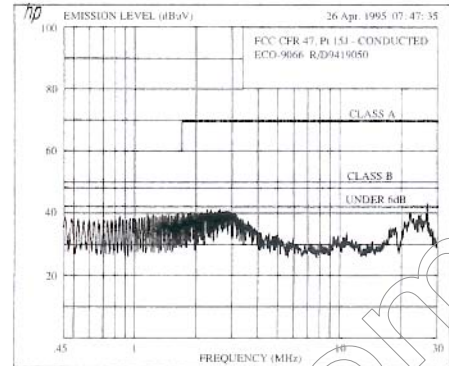


7. +5V step response

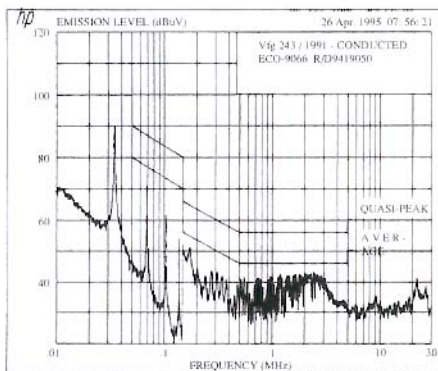


0.2V/div, 2ms/div
+5V steps from 2.6A to 13A

8. FCC B



9. Vfg 243



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