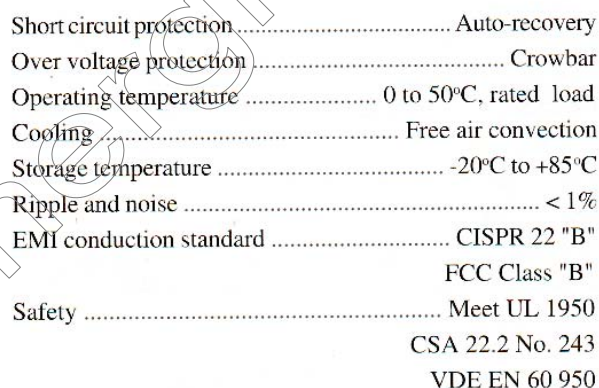
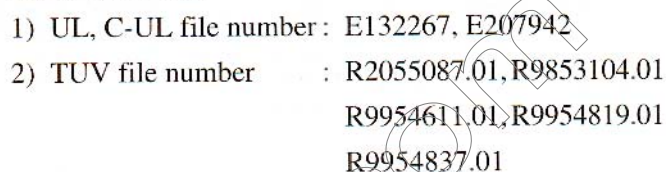




1. Dimensions shown in mm (inch) as left.
Tolerance specified is ± 0.4 mm between mounting holes, and ± 0.8 mm for other dimension.
2. Size:
80 x 152.5 x 32 (mm)
3.14 x 6 x 1.25 (inch)
3. Mounting holes:
67 x 142.5 (mm)
2.63 x 5.61 (inch)
4. Connectors:
TB1 -- Meet IEC 320 stand solder on pcb
TB2 -- Molex 5273-10A or equivalent for SNP-N641, -643-D, -N663
Molex 5273-08A or equivalent for SNP-N623, -N03B



Telecommunication (Universal)

20-60W
SNP-N6XX series

5. TB2 Assignment

Pin Model	1	2	3	4	5	6	7	8	9	10
SNP-N623	+5V	+5V	+5V	GND	GND	GND	+12V			
SNP-N03B	GND	GND	GND	+3.3V	+3.3V	+3.3V	+5V	+5V		
SNP-N641	+5V	+5V	GND	GND	GND	GND	+3.3V	+3.3V	+3.3V	+12V
SNP-N643-D	+3.3V	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND	GND	+12V
SNP-N663	+3.3V	+3.3V	+3.3V	+3.3V	GND	GND	GND	GND	GND	+12V

Output Specifications:

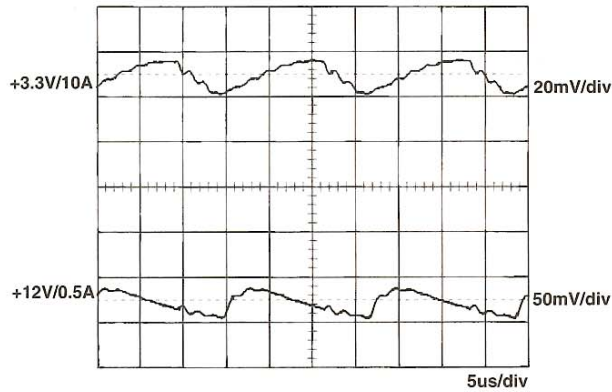
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-N623	+5V	0.5A	4.5A	6A	+4.95V~+5.05V	50mV	±1%	±1%
	+12V	0A	0.3A		+11.00V~+13.00V	120mV	±2%	±5%
SNP-N03B	+3.3V	0A	6A		+3.20V~+3.40V	50mV	±1%	±1%
	+5V	0A	3A		+4.75V~+5.25V	50mV	±2%	±5%
SNP-N641	+3.3V	0.5A	4A		+3.25V~+3.35V	50mV	±1%	±3%
	+5V	0.2A	4A		+4.95V~+5.25V	50mV	±1%	±10%
	+12V	0A	0.5A		+11.60V~+13.80V	120mV	±1%	±10%
SNP-N643-D	+3.3V	0.5A	10A		+3.20V~+3.40V	50mV	±1%	±1%
	+12V	0A	0.5A		+11.00V~+13.00V	120mV	±2%	±5%
SNP-N663	+3.3V	0.5A	15A		+3.20V~+3.40V	50mV	±1%	±3%
	+12V	0A	0.5A		+11.00V~+13.80V	120mV	±1%	±10%

Notes:

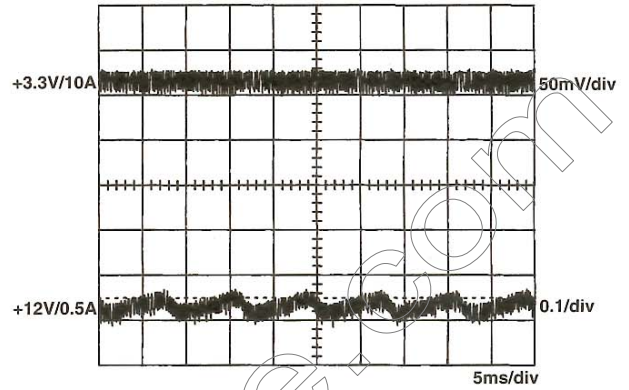
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- Load regulation is defined by changing $\pm 40\%$ 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 for SNP-N643-D:

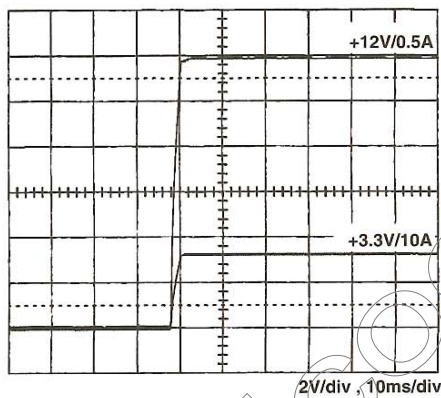
1. Switching frequency ripple



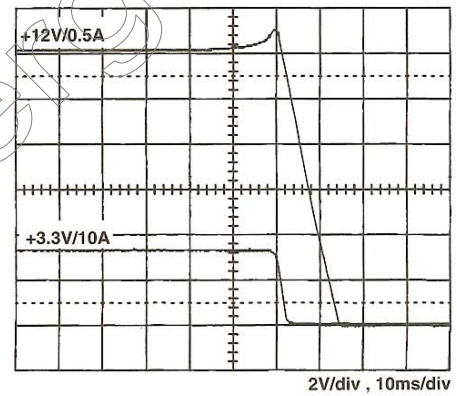
2. Line frequency ripple



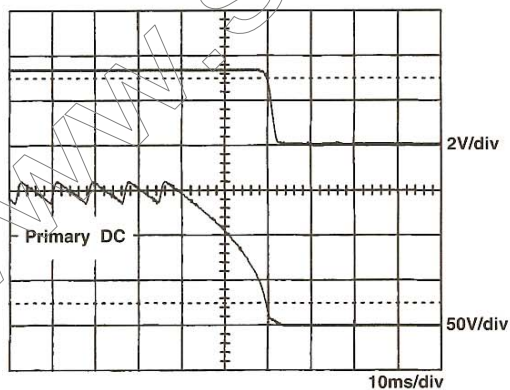
3. Output turn on wave form



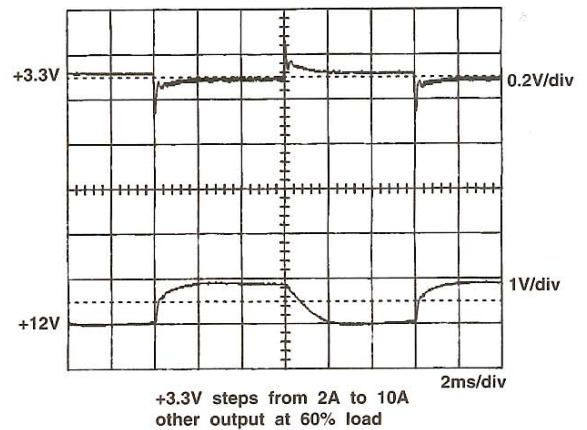
4. Output turn off wave form



5. Hold-up time

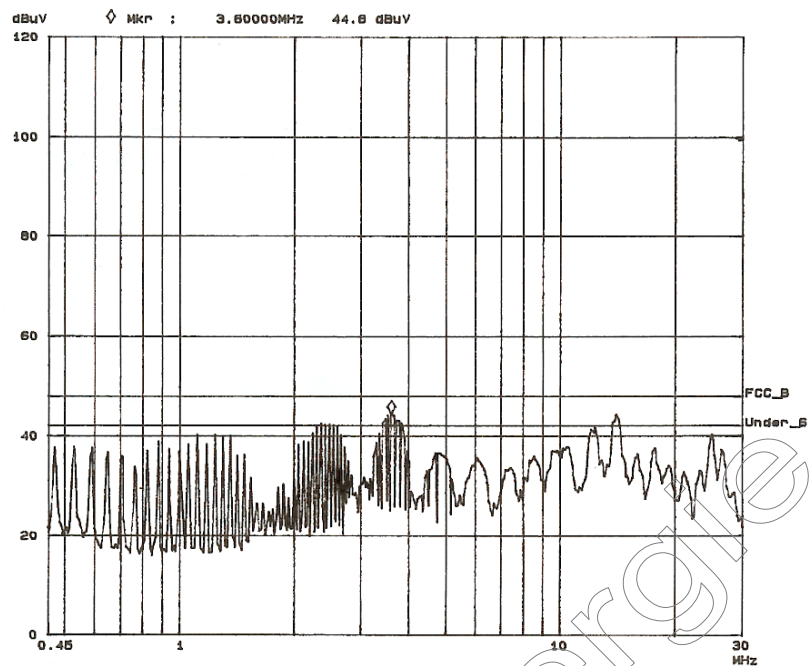


6. +3.3V step response





7. FCC B



8. CISPR 22B

