



### Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX				
SNP-Z106	+5V	0A	20A	26A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z107	+12V	0A	9A	10.8A	+11.90V~+12.10V	120mVpp	±0.5%	±1%
SNP-Z108	+15V	0A	7A	8.7A	+14.90V~+15.10V	120mVpp	±0.5%	±1%
SNP-Z109	+24V	0A	4.5A	5.4A	+23.80V~+24.20V	200mVpp	±0.5%	±1%
SNP-Z10T	+48V	0A	2.3A	2.7A	+47.60V~+48.40V	200mVpp	±0.5%	±1%
SNP-Z101	+5V	0A	11.5A	15A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
	+12V	0A	3A	5A	+11.40V~+12.60V	100mVpp	±0.5%	±5%
	-12V	0A	0.5A	0.5A	-11.40V~-12.60V	100mVpp	±0.5%	±5%
SNP-Z103*	+5V	0A	7A	10A	+4.95V~+5.05V	50mVpp	±0.5%	±1%
	+12V	0A	8A	10A	+11.40V~+13.20V	120mVpp	±0.5%	±5%
SNP-Z10D	+3.3V	0A	10A	15A	+3.20V~+3.40V	50mVpp	±0.5%	±1%
	+5V	0A	8A	10A	+4.75V~+5.25V	50mVpp	±0.5%	±5%
	+12V	0A	0.5A	0.5A	+11.40V~+12.60V	100mVpp	±0.5%	±5%
SNP-Z10B	+3.3V	0A	25A	30A	+3.20 ~+3.40V	50mVpp	±0.5%	±1%

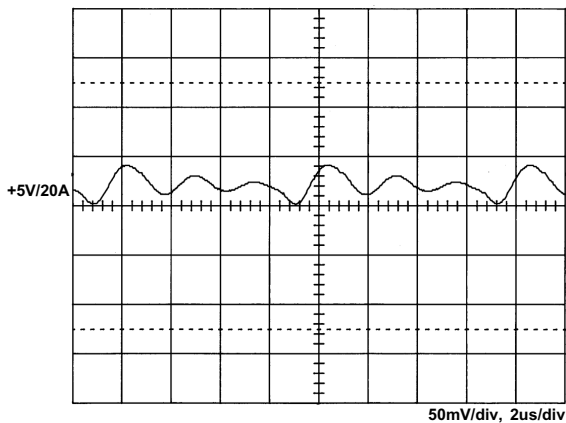
\* SNP-Z103: Convection cooling : 100W    Forced air with 18CFM : 130W

### Note:

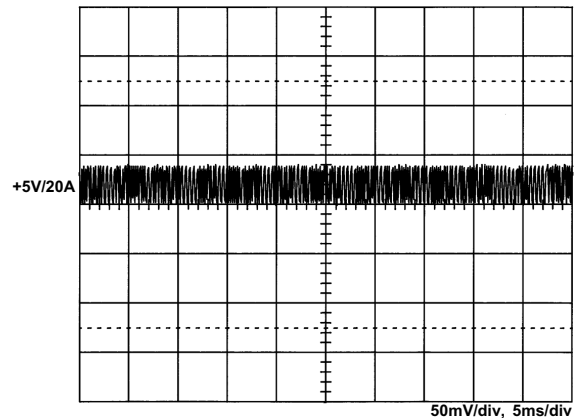
1. The total output current is rated load with free air convection and max. load with 18CFM of forced air flow over the unit.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal 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 and a 47u electrolytic 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 drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.

**Performance for SNP-Z106:**

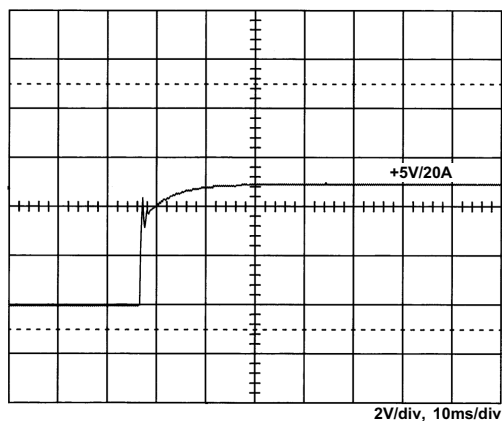
1. Switching frequency ripple



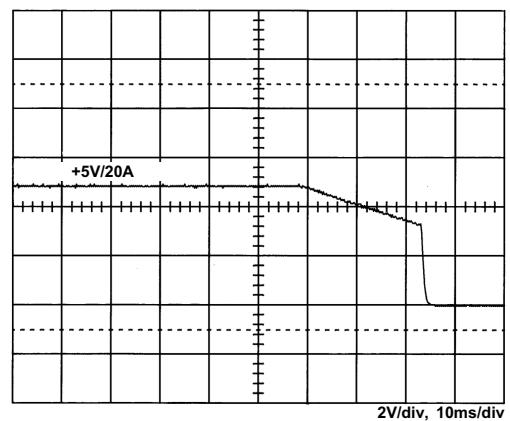
2. Line frequency ripple



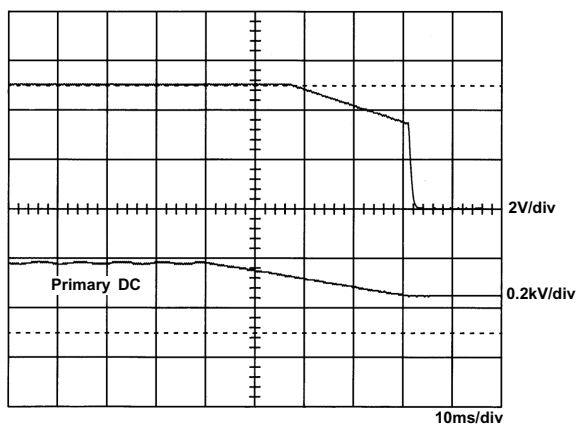
3. Output turn on wave form



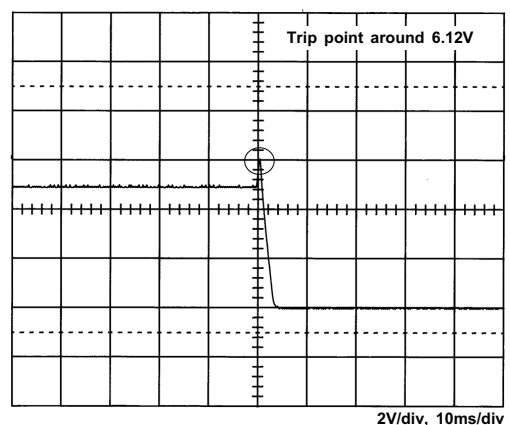
4. Output turn off wave form



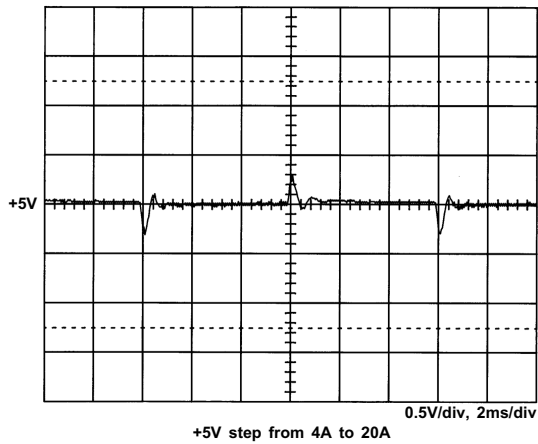
5. Hold-up time



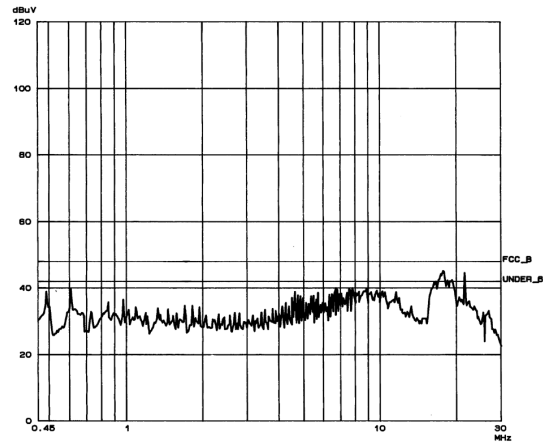
6. Over voltage protection



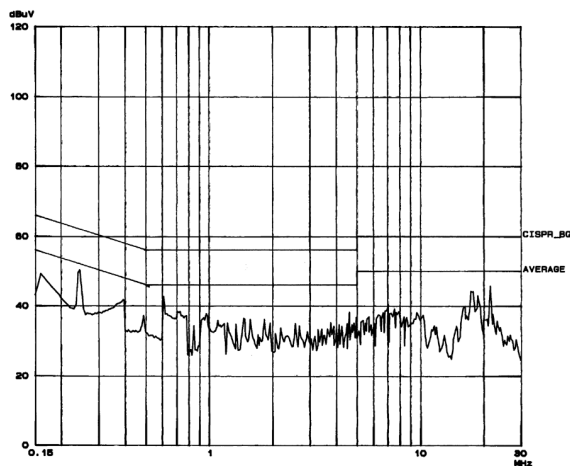
7. +5V step response



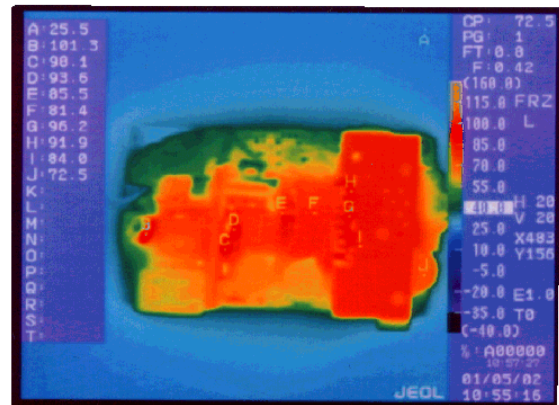
8. FCC B



9. EN55022 B



10. Thermal profile



Test condition:

M/N : SNP-Z106, Input : 104V

Output : 5V/20A, Ambient : 25.5°C