



## Output Specifications:

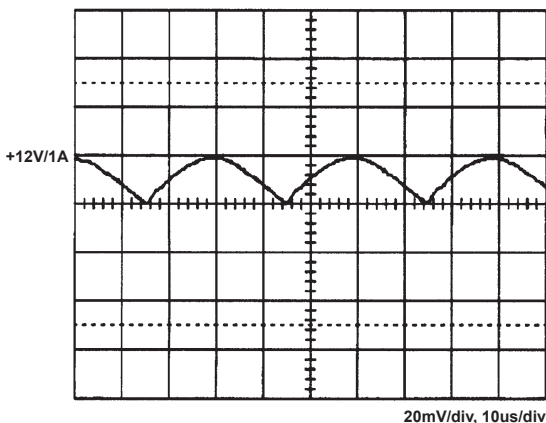
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-Q216	+5V	0A	2A	4A	+4.95V~+5.10V	50mVpp	±1%	±3%
SNP-Q217	+12V	0A	1A	1.8A	+11.4V~+12.6V	100mVpp	±1%	±3%
SNP-Q219	+24V	0A	0.5A	0.9A	+22.8V~+25.2V	100mVpp	±1%	±3%
SNP-Q21C	+9V	0A	1.5A	1.8A	+9.2V~+9.8V	100mVpp	±1%	±3%
SNP-Q316	+5V	0A	2A	4A	+4.95V~+5.10V	50mVpp	±1%	±3%
SNP-Q317	+12V	0A	1A	1.8A	+11.4V~+12.6V	100mVpp	±1%	±3%
SNP-Q319	+24V	0A	0.5A	0.9A	+22.8V~+25.2V	100mVpp	±1%	±3%
SNP-Q31C	+9V	0A	1.5A	1.8A	+9.2V~+9.8V	100mVpp	±1%	±3%
SNP-Q31T	+48V	0A	0.25A	0.25A	+46.6V~+49.4V	200mVpp	±1%	±3%

### Note:

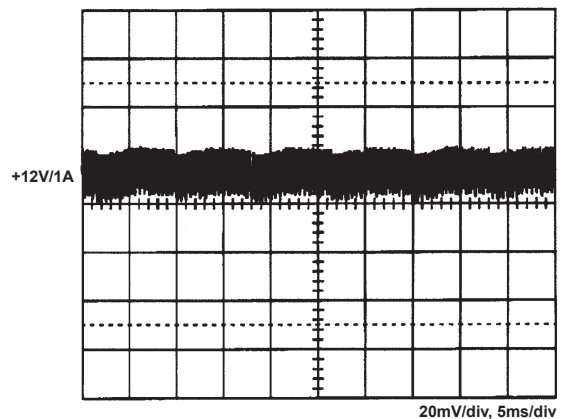
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at 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 +5V output drop down to 4.75V at rated load and nominal line.
- Efficiency is measured at rated load.

## Performance for SNP-Q317:

### 1. Switching frequency ripple



### 2. Line frequency ripple



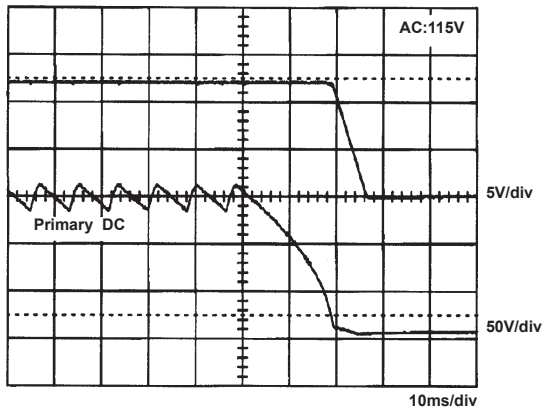


THE RELIABLE SOURCE

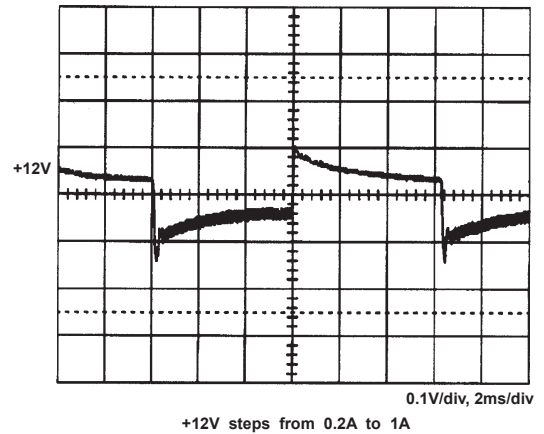
# Switching Adapter (Universal)

10W Con./20W Pk.  
SNP-Q21 Series  
SNP-Q31 Series

### 3. Hold-up time

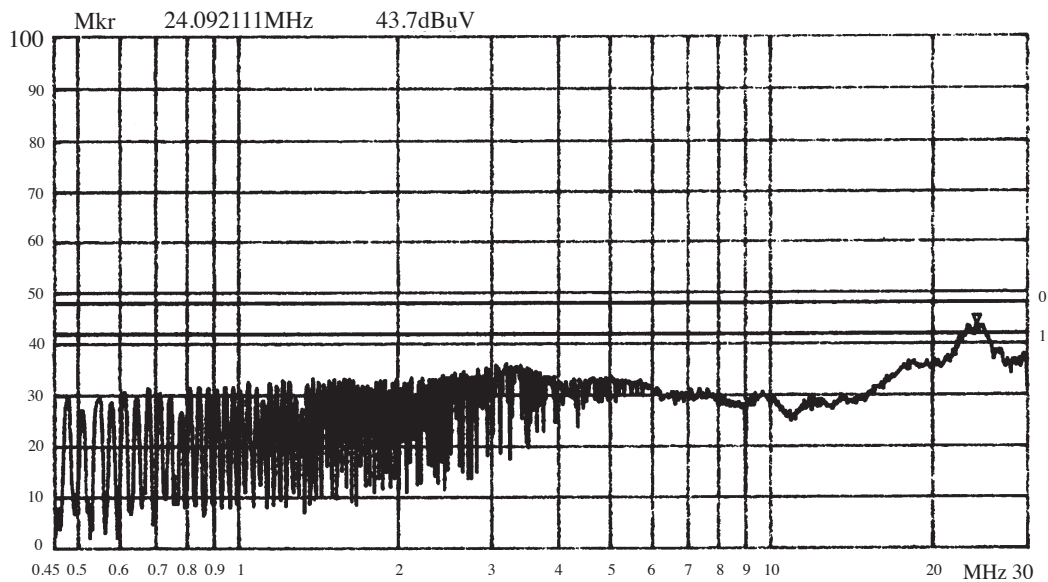


### 4. +12V step response



### 5. FCC B PERFORMANCE

dBuV



Date 05. SEP. '93 Time 05:17:59  
SKYNET EUT: POWER. M/N: SNP-Q317  
LINE: VA. Q.P.: 24.0035MHz 42.1dBuV

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-James-



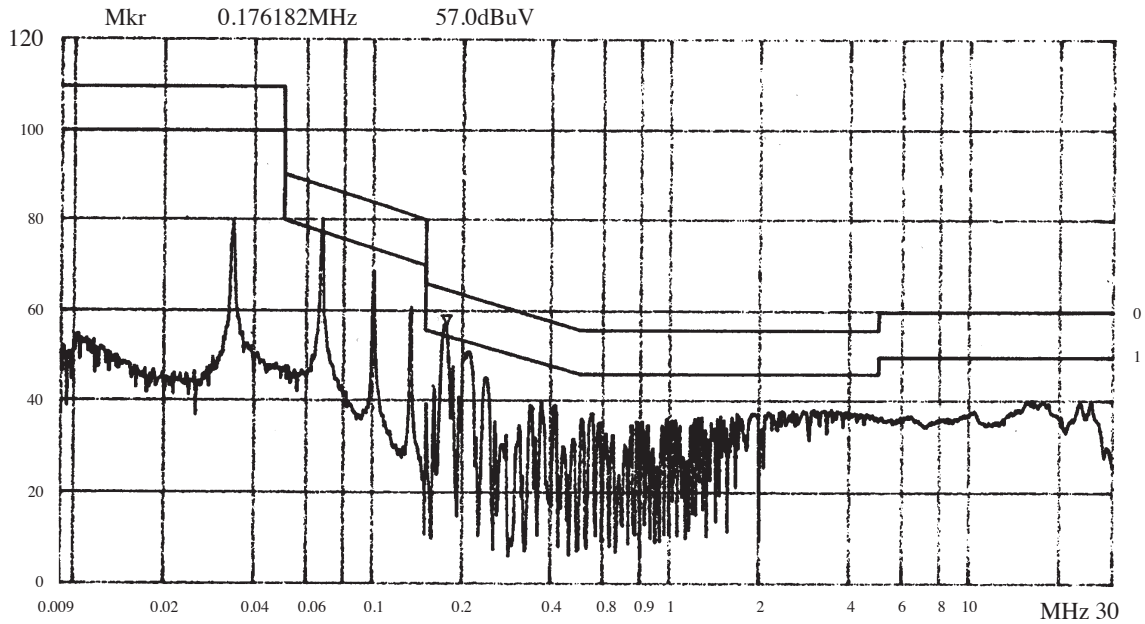
THE RELIABLE SOURCE

# Switching Adapter (Universal)

10W Con./20W Pk.  
SNP-Q21 Series  
SNP-Q31 Series

## 6. VFG 243

dBuV



Date 05. SEP. '93 Time 04: 48: 24  
SKYNET EUT: POWER. M/N: SNP-Q317  
LINE: L1. Q.P: 0.1668MHz 44.7dB7V

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