



Rack Mount 19" VME-bus Power Supply (Universal)

**PFC + 280 W
SNP-Z281**



Description:

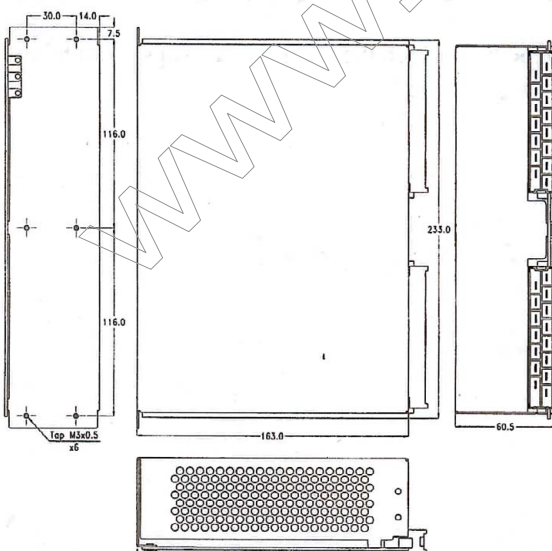
SNP-Z281 is the 6U height, 12HP plug in width 19" power supply unit for VME-bus system. With an active power factor correction, it complies to EN61000-3-2 and has special high efficiency.

This power supply has control signals "AC FAIL" and "SYS RESET" according to the VME-bus specification and has a power good signal.

General Specifications:

Input voltage	90 V AC to 264 V AC	Remote sense	compensates for 0.5V load drop min.
Input frequency	47 Hz to 63 Hz	Operating temperature	0°C to 55°C convection
Inrush current	less than 15A at 230V AC cold start, 25°C	Cooling	free air convection
Outputs	see output table	Storage temperature	-20°C to +85°C
Efficiency	85% typical	EMI	EN55022 "B", FCC "B"
Hold up time.....	20 ms typical at rated load and 115V AC	Harmonies.....	EN61000-3-2 class D
Over load protection	auto-recovery	EMS	EN61000-4-2,-3,-4,-5,-6,-11
Short circuit protection	auto-recovery	Safety	UL 60950 CSA 22.2 No. 234, EN60950
Over voltage protection.....	latch-off	Logic function	AC FAIL, SYS RESET and POWER GOOD

Mechanical Specifications:



Notes:

1. Dimensions shown in mm as left. Tolerance: ± 0.4 mm.
2. Size: 160 x 60.5 x 234 (mm)
3. Connectors: RIS connector (DIN 41612) x 2 pcs



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Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-Z281	+5V	0A	32A	40A	+4.90V~+5.10V	50mVpp	±0.5%	±1%
	+12V	0A	8A	8A	+12.00V~+13.00V	100mVpp	±0.5%	±1%
	-12V	0A	2A	4A	-12.00V~-13.00V	100mVpp	±0.5%	±5%

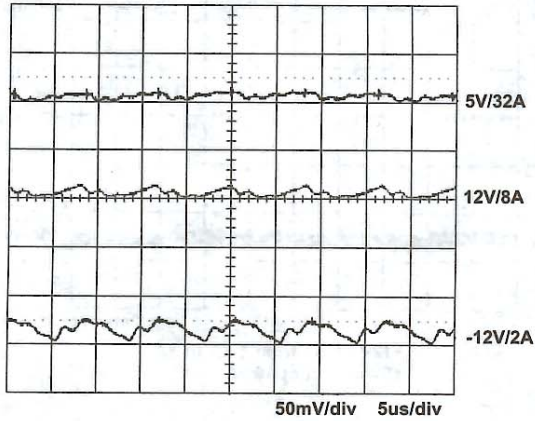
Note:

1. Each output can provide up to max load separately. Continuous staying in more than total output power 280W is not allowed in free air convection.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
4. Load regulation is defined by changing $\pm 40\%$ 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 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.

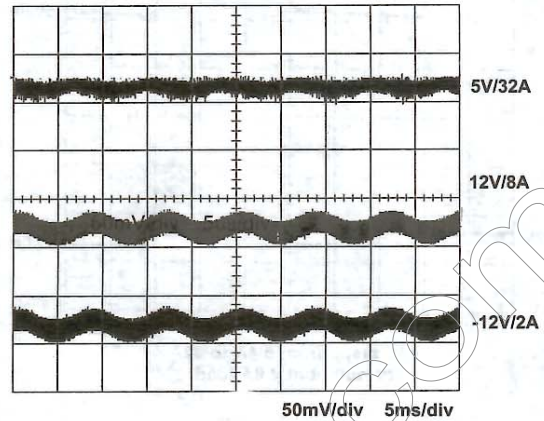


Performance:

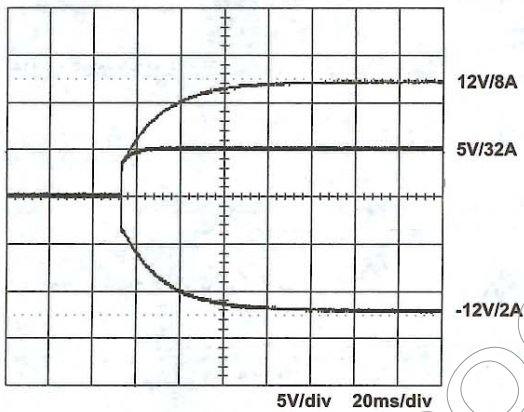
1. Switching frequency ripple



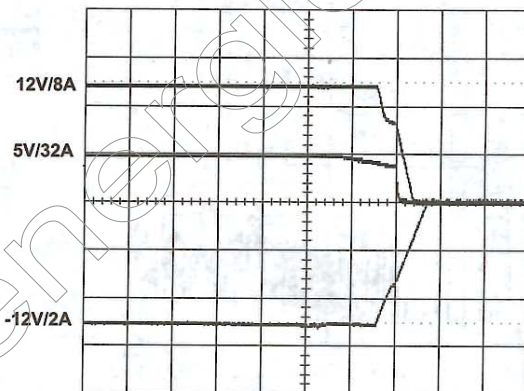
2. Line frequency ripple



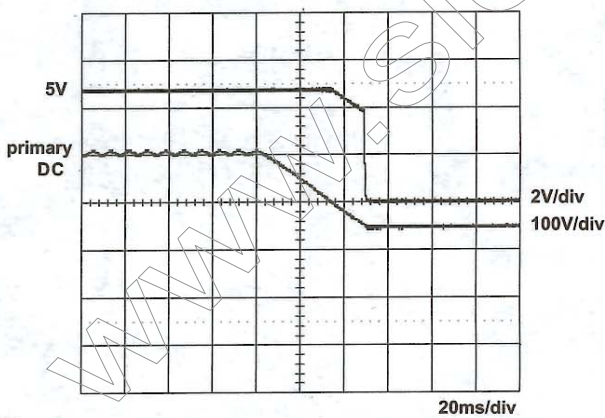
3. Output turn on wave form



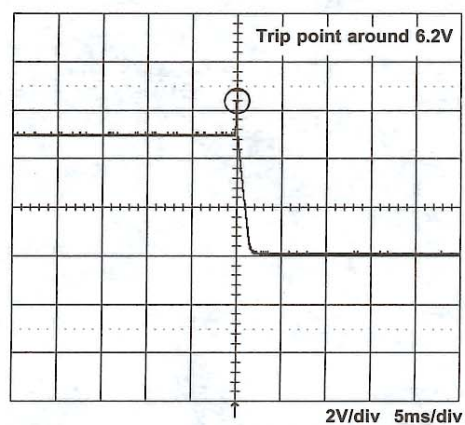
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection

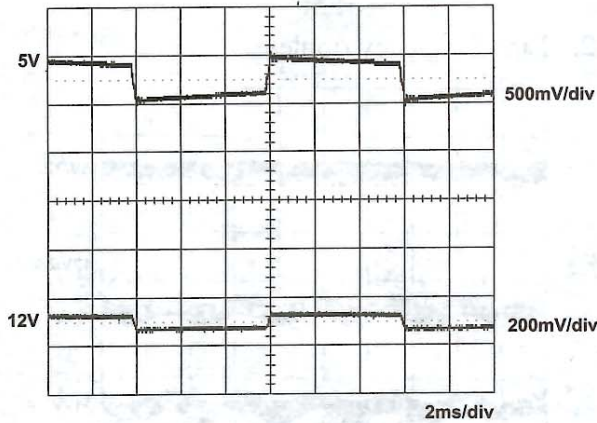




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7. +5V step response



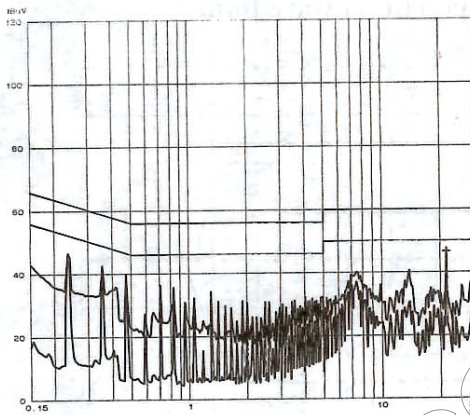
+5V steps from 6.4A to 32A
+12V output at 4.8A load

8. +12V step response



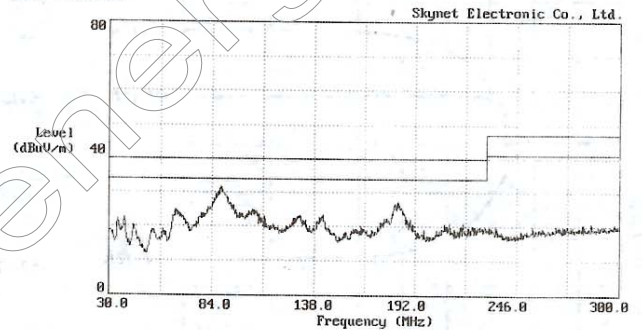
+12V steps from 1.6A to 8A
+5V output at 19.2A load

9. EN55022 B Conductive



10. EN55022 B Radiation

File#: KITTY - 839 Sweep Date : 04-13,2002 Sat Time: 11:48:57 am
Site : Skynet Probe : CBL6111B Vertical
Limit: CISPR CLASS-B 3m Margin: 6 dB
EUT : SNP-Z281 Std :
Power: AC:230V Trace :
Note : 0208004



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