PRELIMINARY

General Purpose (Universal)

PFC + 200W SNP-X20 Series

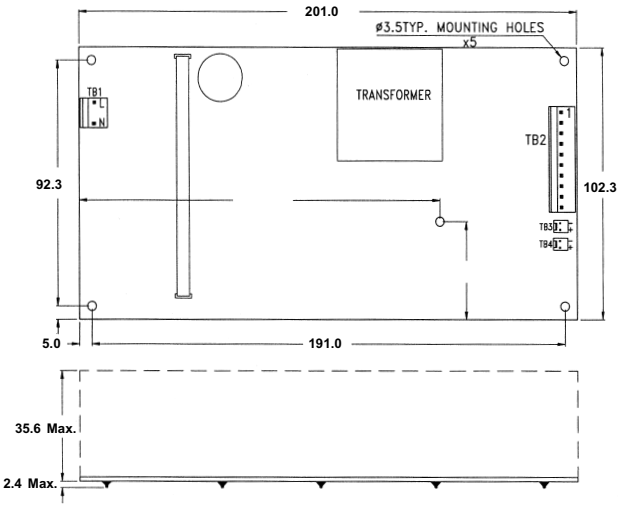
Features:

- With built-in PFC
- Only 1.5 inch height
- 4.0 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 85% to 88%
- Operation from 0°C to 70°C by convection
- 380W peak load capability for 8 seconds

General Specifications:

Input voltage ..... 90 VAC to 264 VAC
Input frequency ..... 47 Hz to 63 Hz
Power factor ..... > 0.93
Inrush current .....less than 30A at 115VAC
or 60A at 230VAC cold start, 25°C
Efficiency ..... 85%~88% depends on models
Hold up time ..... >25 ms
at rated load and 115VAC
Over load protection ..... auto recovery
Short circuit protection..... auto recovery
Over voltage protection ..... latch off
Operating temperature (open frame type) ..... 0°C to 70°C
derating: 2.5% / °C > 50°C
Cooling ..... 200W free air convection
250W 10CFM forced air
Storage temperature ..... -20°C to +85°C
EMI ..... EN55022 "B"
Harmonics..... EN61000-3-2 class D
EMS..... EN61000-4-2,-3,-4,-5,-6,-11
Safety .....UL 60950-1, UL 60601-1
CSA C22.2 No. 60950-1 & 60601-1
TUV EN60950-1 & 60601-1

Mechanical Specifications:



Notes:

1. Dimensions shown in mm as left. Tolerance: +/-0.4mm (Excluding cables).
2. Size: 102.3 X 201 X 38 (mm)
3. Packing:
   Net weight: 495 g approx. / unit
   Gross weight: 14.88 kg approx. / carton, 24 units / carton
   Carton size (mm): 501 (L) x 330 (W) x 275 (H)
4. Connectors:
   AC input : Molex 5277-02A or equivalent
   DC output: Molex 5273-10A or equivalent
   Fan, Remote sense:
   Molex 5045-02A or equivalent

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Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.	EFFICIENCY TYPICAL
		MIN.	RATED	MAX.	PEAK					
SNP-X207	+12V	0A	17A	21A	32A	+11.9V~+12.1V	100mVpp	±1%	±1%	85%
SNP-X208	+15V	0A	13.5A	16.5A	25A	+14.9V~+15.1V	100mVpp	±1%	±1%	85%
SNP-X205	+18V	0A	11A	14A	21A	+17.9V~+18.1V	100mVpp	±1%	±1%	85%
SNP-X209	+24V	0A	8.5A	10.5A	15.5A	+23.9V~+24.1V	100mVpp	±1%	±1%	86%
SNP-X20T	+48V	0A	4.3A	5.2A	7.9A	+47.8V~+48.2V	150mVpp	±1%	±1%	88%
SNP-X20H	+65V	0A	2.45A	3.8A	9.2A	+64.8V~+65.2V	150mVpp	±1%	±1%	87%

Note:

1. Each output can provide up to max load separately when the power supply starts up. To exceed the max. output power continuously is not allowed.
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 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.

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