

SNP-825 & 930 & AT30 & AX40

250-400W Industrial PC Power Supplies

CoolPower
Solutions



Description:

This series is designed for industrial PC. It is PS2 size mounting.

SNP-AT30, SNP-AX40 are with soft-switching topology, high efficiency, universal input and active PFC.

Model available:

- SNP-825A for 5V/25A, 12V/10A, -12V/0.5A, -5V/0.5A, 3.3V/8A, 5Vsb/0.72A
- SNP-930A for 5V/33A, 12V/10A, -12V/1A, -5V/0.5A
- SNP-AT30 for 5V/30A, 12V/10A, -12V/2A, -5V/0.5A
- SNP-AX40 for 5V/30A, 12V/12A, -12V/1A, -5V/0.5A, 3.3V/25A, 5Vsb/2A

General Specifications:

Input voltage

SNP-825A 115V/230V auto-switching circuit
 SNP-930A 115V/230V by switch
 SNP-AT30 universal
 SNP-AX40 universal

Input frequency 47Hz to 63Hz

Efficiency . > 65% at rated load for SNP-825A, -930A
 > 75% at rated load for SNP-AT30, -AX40

Short circuit protection..... auto recovery

Over load protection auto recovery

Over voltage protection latch off

Operating temperature 0 °C to 50 °C

Cooling force air convection

Inrush current less than 30A at 115VAC
 less than 60A at 230VAC

Hold up time longer than 16ms at rated load and 115VAC

Storage temperature -40 °C to +85 °C

Humidity up to 95% non condensing

EMI radiation..... EN55022 "B", FCC "B"

EMS EN61000-4-2,-3,-4,-5,-6,-8,-11

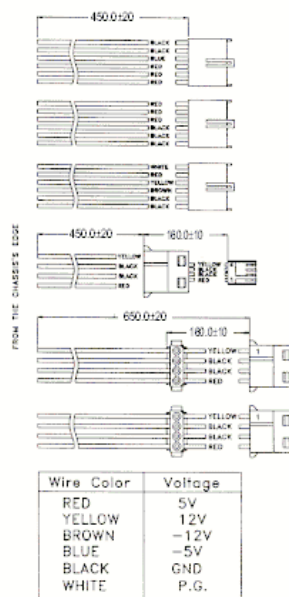
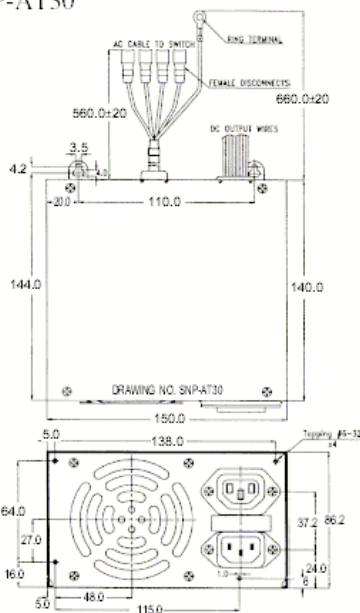
Safety Meet UL60950

CSA 22.2 No. 234

EN60950

Mechanical Specifications:

SNP-AT30



Notes:

1. Dimensions shown in mm (inch) as above.
Tolerance specified is ± 0.8mm.
2. Size: 150 x 140 x 86.2 (mm)
3. DC Input : using terminal blocks
4. DC Output :
 ATX : Molex 39-01-2200 or equivalent
 AT : Burndy GTC6P-1 or equivalent
 Disk driver : AMP 1-486424-0 or equivalent
 3 1/2 floppy driver : AMP 171822-4 or equivalent

Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-825A	+5V	2A	25A	30A	+4.80V~+5.20V	50mV	±1%	±3%
	+12V	0.1A	10A	15A	+11.40V~+12.60V	100mV	±1%	±5%
	-12V	0A	0.5A	1A	-11.40V~-12.60V	100mV	±1%	±2%
	-5V	0A	0.5A	1A	-4.75V~-5.25V	100mV	±1%	±2%
	+3.3V	1A	8A	15A	+3.13V~+3.47V	50mV	±1%	±2%
	+5Vsb	0A	0.72A	1.2A	+4.75V~+5.25V	100mV	±1%	±3%
SNP-930A	+5V	1A	33A	40A	+4.90V~+5.10V	50mV	±1%	±3%
	+12V	0.1A	10A		+11.28V~+12.72V	140mV	±2%	±5%
	-12V	0A	1A		-10.80V~-13.20V	120mV	±1%	±5%
	-5V	0A	0.5A		-4.75V~-5.25V	50mV	±1%	±1%
SNP-AT30	+5V	3A	30A	40A	+4.90V~+5.30V	50mV	±1%	±3%
	+12V	0.1A	10A	12A	+11.28V~+12.72V	100mV	±1%	±5%
	-12V	0A	2A	3A	-11.00V~-13.00V	100mV	±1%	±5%
	-5V	0A	0.5A		-4.75V~-5.25V	50mV	±1%	±3%
SNP-AX40	+5V	2A	30A	40A	+4.80V~+5.20V	50mV	±1%	±5%
	+12V	0.2A	12A	15A	+11.40V~+12.60V	120mV	±1%	±5%
	-12V	0A	1A		-11.40V~-12.60V	120mV	±1%	±5%
	-5V	0A	0.5A		-4.75V~-5.25V	50mV	±1%	±5%
	+3.3V	0.5A	25A	30A	+3.13V~+3.47V	50mV	±1%	±5%
	+5Vsb	0A	2A		+4.75V~+5.25V	50mV	±1%	±5%

Notes:

- 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.
- 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 0.47 μ F 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 drops down to low limit of main output at rated load and nominal line.
- Efficiency is measured at rated load and nominal line.