SNP-A12 Series

120 W AC/DC Switching Adapter with PFC

CoolPower Solutions



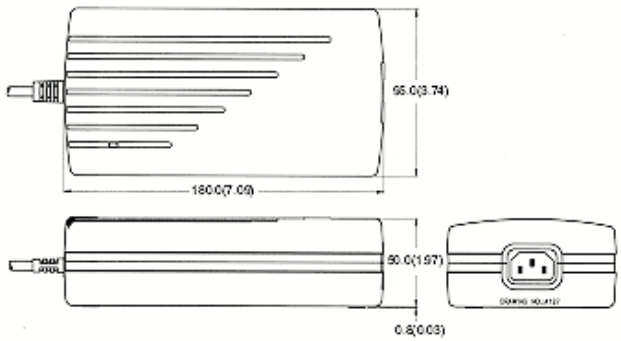
Description:

It will be a big challenge to engineers if boost active PFC plus 120W output universal power adapter is going to be designed into a 95 x 180 x 50 mm box. Increasing overall efficiency and the special care of heat dissipate make SNP-A12 series reaching this impossible mission. Furthermore, this series was designed with patented Ring-Free ZVS & Active PFC. SNP-A12X-M series is for medical application.

General Specifications:

Input voltage	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz
Inrush current	less than 60A at 230VAC cold start, 25° C
Outputs	See output table
Efficiency	84%~87% depends on models
Holdup time	> 16 ms at rated load and 115VAC
Over voltage protection	latch-off
Short circuit protection	auto-recovery
Over load protection	auto-recovery
Operating temperature	0° C to 40° C
Cooling	free air convection
Storage temperature	-20 °C to +85 ° C
EMI	FCC class "B" CISPR22 level "B"
Harmonics	EN61000-3-2 class D
EMS	EN61000-4-2, -3, -4, -5,-6,-11
Safety	UL 60950,(UL60601-1) CSA 22.2 No. 60950, (CSA 601-1, CUL) TUV EN60950, (EN60601-1)

Mechanical Specifications:



Notes:

1. Dimensions shown in mm (inch) as left.
   Tolerance:
   ±1mm (Excluding cables).
2. Size:
   95 mm x 180 mm x 50 mm
3. Connectors:
   AC input : IEC 320 Inlet
   DC output : Molex 5557-06 or equivalent
4. Box Color : Black

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Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-A127 (-M)	+12V	0 A	9.0 A	15 A	+11.40V~+12.60V	100mVpp	±1%	±3%
SNP-A128 (-M)	+15V	0 A	7.5 A	10 A	+14.25V~+15.75V	100mVpp	±1%	±3%
SNP-A125 (-M)	+18V	0 A	6.5 A	9.0 A	+17.10V~+18.90V	100mVpp	±1%	±3%
SNP-A129 (-M)	+24V	0 A	5.0 A	7.0 A	+22.80V~+25.20V	100mVpp	±1%	±3%
SNP-A12T (-M)	+48V	0 A	2.5 A	4.0 A	+45.60V~+50.40V	100mVpp	±1%	±3%

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Note:

1. Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load 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.
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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