

Din Rail Supplies

60-120 Watts THD Series



THE **XP**ERTS IN POWER

- Wide Adjustment Range
- Ultra Compact Plastic Case
- Power Good Signal
- LED Indication Of Operation
- Universal Input
- Screw Terminal/Cage Clamp Options
- High Efficiency

Specification

Input

- Input Voltage** • 85-264 VAC
- Input Frequency** • 47-63 Hz
- Harmonic Limits** • EN61000-3-2 Class A
- Recommended circuit breaker** • THD60 models 5.0 A
THD120 models 10.0 A (characteristic C)

Output

- Output Voltage** • 12 VDC models 12-15 VDC
24 VDC models 24-28 VDC
48 VDC models 48-56 VDC
- Regulation** • 2.0% (10 to 90% load variation)
- Ripple & Noise (20 MHz Bandwidth)** • <50 mV pk-pk
- Short Circuit Protection** • Current limitation at 120% typical (constant current, automatic recovery)
- Parallel Operation** • Output current characteristics suitable for parallel operation of max. 5 units
- Overvoltage Protection** • 12/24 VDC models <40 VDC
48 VDC models <60 VDC
- Hold up Time** • 115 VAC - min 15 ms
230 VAC - min 125 ms
- Power Good Signal** • 12 VDC models >11 V,
11.0 V $\pm$ 1.0 V/60 mA max
24 VDC models >22 V
22.0 V $\pm$ 2.0 V/30 mA max
48.0 V models >44 V
44.0 V $\pm$ 4.0 V/15 mA max

General

- Switching Frequency** • 150 kHz typ (depending on load)
- Efficiency** • 88% typical
- Isolation** • 3000 VAC - Input to output 1 min
- MTBF** • >450,000 hours

Environmental

- Operating Temperature** • -10 °C to +70°C max
- Derating** • 115 VAC at 1.1%/°C above 40 °C
230 VAC at 1.7%/°C above 50 °C
- Storage Temperature** • -25 °C +85 °C
- Humidity** • 95% RH max
- Temperature Coefficient** • 0.02%/°C

EMC & Safety

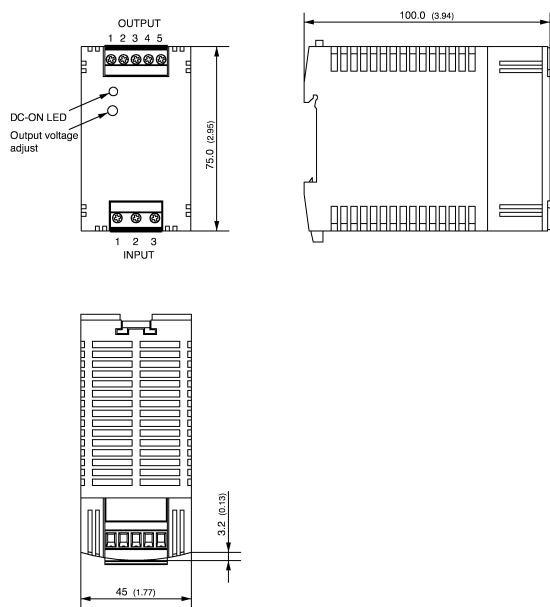
- EMC Emissions** • EN50081-1
- EMC Immunity** • EN61000-6-2
- Safety Standards** • EN60950, UL60950, UL508,
EN50178, EN60204, EN61558-2-8
- Safety Approvals** • UL508C listed
UL/cUL 60950 recognised

OUTPUT VOLTAGE & CURRENT RATINGS				THD
Output Power	Output Voltage	Output Current	Model Number	
60 W	12 VDC	4.0 A	THD60US12	
	24 VDC	2.5 A	THD060US24	
	48 VDC	1.25 A	THD060US48	
120 W	12 VDC	8.0 A	THD120US12	
	24 VDC	5.0 A	THD120US24	

Notes

1. Standard models have plug in screw terminals for cage clamps add suffix 'C' to model number.
2. Battery charging versions available, add suffix 'B' to model number. Battery charging versions have improved regulation of 0.5% and cannot operate in parallel.

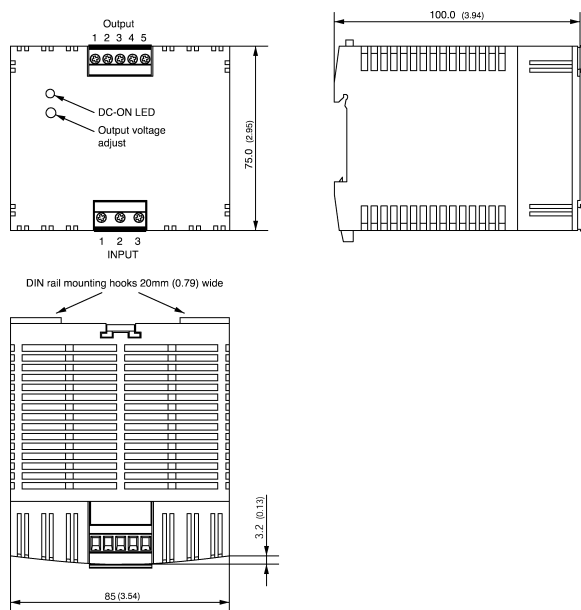
Mechanical Details - 60 Watt Models



Pins	Input	Output
1	AC Ground	+Vout
2	Neutral	+Vout
3	Live	-Vout
4		-Vout
5		Power Good

Tolerance: $\pm 0.5\text{mm}$ (± 0.02)

Mechanical Details - 120 Watt Models



Pins	Input	Output
1	AC Ground	+Vout
2	Neutral	+Vout
3	Live	-Vout
4		-Vout
5		Power Good

Tolerance: $\pm 0.5\text{mm}$ (± 0.02)