



- 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

- Standard models have plug in screw terminals for cage clamps add suffix 'C' to model number.
- 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

DC-ON LED
Output voltage adjust

OUTPUT
1 2 3 4 5

100.0 (3.94)

75.0 (2.95)

INPUT
1 2 3

45 (1.77)

3.2 (0.13)

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

Output
1 2 3 4 5

DC-ON LED
Output voltage adjust

100.0 (3.94)

75.0 (2.95)

INPUT
1 2 3

DIN rail mounting hooks 20mm (0.79) wide

85 (3.34)

3.2 (0.13)

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)