

Installation Notes

LPS250 Series 250 Watts

Single Output



Input Specifications

Input range	85 VAC to 264VAC 120 VDC to 370 VDC
Frequency	47 - 640 Hz
Inrush current	<38 A, peak
Efficiency	75% typical at full load
Power factor	0.99 typical, meets EN51000-3-2
EMI filter	Meets FCC Class B CISPR 22 Class B (includes EN55022 class B and VDE 0878 PT3 class B)
Electromagnetic compatibility	Meets IEC801-2 level 3, IEC801-4 level 3 and IEC801-5 level 3
Safety ground leakage current	< 0.5mA @50/60Hz, 264VAC input

Environmental

Operating temperature: 0°C to 50°C ambient;
- derate at 2.5% / °C from 50°C to 70°C
Storage temperature: -40°C to 85°C
Thermal regulation: $\pm 0.04\%$ / °C
MTBF: $\geq 100,000$ hours at full load and 25°C
ambient conditions

Notes (refer to table)

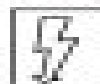
1. Peak current testing = 30 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 μ F in parallel with a 0.1 μ F capacitor.
4. Output voltage user adjustable over range shown. Factory set at nominal voltage.
5. Minimum load required for regulation. Unit will operate at no load but over voltage protection may latch.
6. Continuous maximum power drawn must not exceed 250W with fan cooling. Not to be used without cooling fan.

Mating Connectors

SK1 AC Input: Screw terminals M3.5 spade
TR1 Main DC O/p: Screw terminals M3.5 spade
SK3 Auxiliary: Housing Molex 22-01-1062 (or 22-01-2085)
SK4, 5, 7 Fan/Aux: Housing Molex 22-01-1022 (or 22-01-2025)
Crimps: 22/30 AWG Molex, 05-50-0032 (or 05-50-0114)

Notes

- 1 Specifications subject to change without notice.
- 2 All dimensions are in mm and (inches).
- 3 Output Common capacitively coupled to chassis earth.
- 4 This power supply must be earthed for safe operation via SK1-3 connector.
- 5 Unit supplied with cover fitted.
- 6 Fan cooling required. Recommended position at mains terminal end blowing into unit. 30CFM forced air required
- 7 Weight 1.41 kg / 3.1 lb.



Warning: Hazardous mains voltages present within this unit. Please see enclosed 'Astec Installation and Operating Instructions'.

Output Specifications

Maximum wattage	250W with 30CFM forced air with cover; 200W with 30CFM forced air, without cover.
Adjustment range	2:1 adjustment range
Hold-up time	20 ms at 250W load and 115 VAC nominal line
Overload protection	Short circuit protection. Auto-recovery. Total power limited @ 110% to 145% above peak rating
Overvoltage protection	10% to 25% above output voltage setting. Tracks with output voltage. Recycle AC to reset.
Supervisory output	5V / 100mA regulated; output maintained when main outputs inhibited. (for use with inhibit and power good function)
Fan supply output	12V / 200mA; output maintained when power supply inhibited.

Safety

VDE	0805/EN60950 (IEC950)
UL	UL1950
C8A	C8A 22-2-234 Level 3
NEMKO	EN 60950/EMKO-TUE (74-sec) 203
BAST	EN60950/BST002
CB	Certificate and report
CE	This product is CE marked following the provisions of the Low Voltage Directive 73/23/EEC

Auxiliary Connections

- 1 Remote sense - optional connection- can compensate for up to 0.5V drop; internal local sense connected if not used. Protected against reverse connection.
- 2 AC Power Fail signal- TTL compatible signal goes high 50-150ms after switch on. Goes low >4 ms before 5V drops to 4.75V.
- 3 DC Power OK - TTL compatible signal goes high at same time as AC Power Fail. Goes low when 5V drops to 4.75V.
- 4 Remote Inhibit. Connecting pin 3 to pin 5 (common) will inhibit the outputs.
- 5 Remote-Enable. To convert to enable, cut jumper J1; connecting pin 4 to pin 5 will enable outputs.
- 6 Paralleling power supplies - when the 'C share' signal is connected between two power supplies the main 5V outputs will current share.

Fusing

Input fuse 5.3A 20mm Quick Acting HBC mains fuse - only replace with same type and rating to maintain safety standards.

Astec Alarms Manual

IEEE



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