250 Watts **LPO250 Series**

Total Power: 250 Watts Input Voltage: 85-264 VAC 120-300 VDC *# of Outputs:* Quad

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Special Features

- Active power factor correction
- IEC EN61000-3-2 compliance
- Remote sense on main output
- Power fail and remote inhibit ٠
- Single wire current sharing · Built-in EMI filter
- Adjustable floating 4th output 2 Supervisory outputs 5 V and 12 V
- Overvoltage protection
- Overload protection
- Thermal overload protection ٠
- ٠ DC power good
- ٠ Cover -C
- ٠ 120 KHz switching frequency
- Optional with fan cover -CF ٠
- Optional end fan cover -CEF

Environmental

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3

Humidity: Operating; non-condensing 5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.7 G peak 5 Hz to 500 Hz, operational

Storage temperature: -40° to 85°C

Temperature coefficient: ±.04% per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditions

Electrical Specs

Input Input range Frequency Inrush current Efficiency EMI filter

Power factor Safety ground leakage current

Output

Supervisory outputs

Hold-up time

Overvoltage protection

Logic Control

Power failure

Remote on/off

DC-OK

Remote sense

85-264 VAC; 120-300 VDC 47-440 Hz 20 A max., cold start @ 25°C 75% typical at full load FCC Class B conducted and radiated CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated VDE 0878 PT3 Class B conducted and radiated. 0.99 typical

<0.5 mA @ 50/60 Hz, 264 VAC input

With cover: 250 W with 30 CFM forced air, (-C) (-CF) (-CEF). ±5% min. on main: 5-25 V on 4th output 5 V @ 100 mA regulated, 12 V @ 500 mΑ 16 ms @ 250 W load, 115 VAC nominal line Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 5 V output: 5.7-6.7 VDC.

TTL logic signal goes high 50-150 msec after 5V output. It goes low at least 4 msec before loss of regulation Requires an external contact (N.O or N.C) to inhibit outputs TTL logic goes high 50-150 msec after 5 V output. It goes low when there is loss of regulation. Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

	Safety	
VDE UL CSA NEMKO CB CE	0805/EN60950 (IEC950) UL1950 CSA 22.2-234 Level 5 EN 60950/EMKO-TUE (74-sec) 203 Certificate and report Mark (LVD)	11774-3336-1262 E132002 LR53982C P95103550 2186



Maximum power Adjustment range

Overload protection

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ASIA



Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
	+5 V	3 A	35 A	40 A	±2%	50 mV
	+12 V	0 A	10 A	12 A	±3%	120 mV
	-12 V	0 A	6 A	8 A	±3%	120 mV
	±5-25 V	0 A	6 A	8 A	±3%	240 mV, max.
LPQ253-C	+5 V	3 A	35 A	40 A	±2%	50 mV
	+15 V	0 A	10 A	12 A	±3%	150 mV
	-15 V	0 A	6 A	8 A	±3%	150 mV
	±5-25 V	0 A	6 A	8 A	±3%	240 mV, max.

1. Peak current lasting <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 $10 \,\mu$ F in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

4. 4th output 5-25 V factory set at 5 V.

5. Minimum Load is are required.

6. If optional CF or CEF fans are not used, 30CFM forced air cooling needs to be provided and is required through the length of the power supply. Not convection rated.

Note: -CF suffix added to the model number indicates cover with top fan. -CEF suffix added to the model number indicates cover with dual end mounted fan cover and AC inlet.



