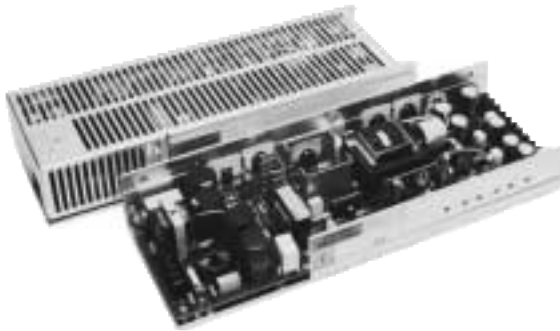


XL250 SERIES

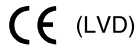
Quad output



- UL, CSA and VDE approved
- 110/230VAC input
- Overvoltage protection (+5V output)
- Power fail detect
- Input surge current protection
- One floating output as standard
- U bracket construction with cover for cased models

These medium power multi-output switchers offer 180 to 250 Watts of output power and are available in open frame and cased packages. The XL250 offers 180 Watts of continuous output power with convection cooling. With the open frame models and forced air cooling, the XL250 delivers 250 Watts. VDE safety and VDE/FCC level B conducted EMI compliance are standard and are approved by UL, CSA and VDE. A floating output on auxiliary output V4 is standard on all models. Auxiliary outputs have high current capabilities. This series will power medium sized disk drives, communications and other I/O devices.

[2 YEAR WARRANTY]






SPECIFICATION All specifications are typical at nominal input, full load at 25°C unless otherwise stated

OUTPUT SPECIFICATIONS		
Output voltage adjustability	+5V output Auxiliary outputs	4.75V to 5.75V ±5.0%
Line regulation	LL to HL, all outputs	±0.3%
Total regulation	Main output Auxiliary outputs	±1.0% max. ±6.0% max.
Ripple pk-pk	0 to 50MHz	±1.0%
Transient response	+5V (15A to 20A)	200mV pk settling to 1% in 1ms max.
Temperature coefficient	+5V output Other outputs	±0.02%/°C max. ±0.03%/°C max.
Overvoltage protection	+5V output	6.25V ±0.75V
Output power limit		Pin 423W max. Pout 280W min. Pout 250W max.
INPUT SPECIFICATIONS		
Input voltage range	110VAC 230VAC	90 to 132VAC 180 to 264VAC
Input frequency range		47Hz to 63Hz
Input surge current		45A
Safety ground leakage current	110VAC, 60Hz 230VAC, 50Hz	0.34mA max. 0.6mA max.

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS		
Conducted emissions	FCC VDE0871, EN55022, EN55011	Level B Level A
GENERAL SPECIFICATIONS		
Hold-up time		60ms
Efficiency		70% typical
Isolation voltage	Input/output Input/chassis	3000VAC 1500VAC
Switching frequency	Variable	22 to 33kHz
Approvals and standards	Safety	VDE0805, EN60950, UL478 CSA C22.2 No. 143 and 154
Weight		2.05kg (52.1oz)
MTBF	MIL-HDBK-217E	300,000 hours
ENVIRONMENTAL SPECIFICATIONS		
Thermal performance	Operating Non-operating	0°C to +70°C -40°C to +85°C 250W 0°C to +50°C, ambient, 30CFM 50°C to +70°C, 30CFM Derate 7W/°C
Relative humidity	Non-condensing	5% to 95% RH
Altitude	Operating Non operating	10,000 feet max. 30,000 feet max.
Vibration, See Note 6	5Hz to 500Hz	2.4G rms (approx.)

International Safety Standard Approvals

-  VDE0805/EN60950 Reg. File No. 1094
-  UL478 Reg. File No. E131987
-  CSA C22.2 No. 143 and No. 154 File No. LR41062C

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180 to 250 Watt AC/DC user-selectable input switch mode power supplies

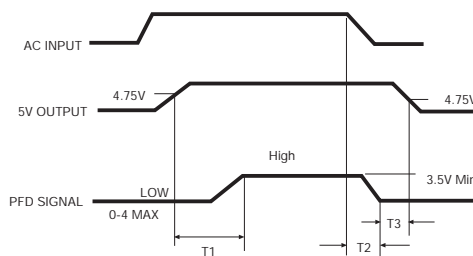
OUTPUT POWER (1)	OUTPUT VOLTAGE AND CURRENT (1)				REGULATION (3,4)		PK-PK NOISE	MODEL	
	V1	V2	V3	V4 (2)	V1	OTHERS		OPEN FRAME	CASED
250 (180)W	+5V@30A (22A)	+12V@7A (5A)	-12V@3.5A (2.5A)	±24V@7A (4A)	±1%	±6%	±1%	XL250-4602	XL250-4602C
250 (180)W	+5V@30A (22A)	+12V@7A (5A)	-12V@3.5A (2.5A)	±12V@6A (4A)	±1%	±6%	±1%	XL250-4603	XL250-4603C

Notes

- The values contained within the brackets indicate the rating with convection cooling.
- Output 4 is floating.
- Regulation in the output voltage and current table is defined as the static output regulation at 25°C, including initial tolerance, line voltage within stated limits, and output voltages adjusted to their factory settings.
- The following minimum loads are required to ensure operation within specified regulation limits:
 XL250-4602 : 5V/3A, +12V/500mA, -12V/500mA, ±24V/500mA
 XL250-4603 : 5V/3A, +12V/500mA, -12V/500mA, ±12V/500mA
- Peak currents in excess of the maximum indicated rating may be available on some outputs. However, this will effect output regulation. Consult factory for details.
- Three orthogonal axes, sweep at 1 octave per minute, 30 minute dwell at each major resonance.
- This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.

Power Fail Detect

T₁ ≥ 150ms to 750ms max.
 T₂ will vary with line and load conditions
 T₃ ≥ 6ms
 Pout : 250W
 PFD will sink more than 40mA in the low-state
 PFD will source at least 4mA in the high state



PIN CONNECTIONS	
TB2	FUNCTION
Term 1	P.F.D.
Term 2	V3 Output
Term 3	V2 Output
Term 4	V4 Output
Term 5	V4 Return
Term 6	Return, Common
Term 7	Return, Common
Term 8	V1 Output
Term 9	V1 Output
TB1	
Term 1	AC Live
Term 2	AC Neutral
Term 3	AC Ground

Mechanical notes

- A Connect JP1 to E1 for 110V operation.
- B Connect JP1 to E2 for 230V operation.
- C Maximum screw penetration (0.125in) 3.2 mm.
- D All dimensions shown are for reference only.

