

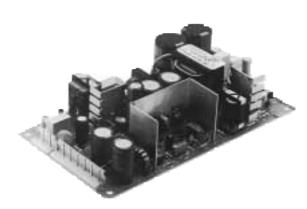
# **XL50 SERIES**

Quad output



- 115/230VAC input selectable
- Input surge current protection
- Overvoltage protection on +5V output
- · Fast transient response

These low power multi-output switchers offer 60 Watts of output power in a compact open frame package. The XL50 are quad output units, which can deliver 60 Watts. The four models in this series provide output voltage combinations of +5V, -5V, +12V, -12V, +15V, -15V and +24V. VDE/FCC level B conducted EMI compliance are standard as is VDE, UL, CSA and BABT approvals. These low power units are ideal for small computer applications. Designed for microprocessor and VDU applications, with memory, disk drives, printers and other I/O devices.



[ 2 YEAR WARRANTY ] **( (**LVD)

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

OUTPUT SPECIFICATION	ONS	
Line regulation	All outputs, LL to HL See Notes 2 and 3	±0.3%
Load regulation	+5V output Auxiliary outputs See Notes 1, 2 and 3	±3.0% typ. ±5.0% typ.
Overshoot/undershoot	At turn-on	0%
Transient response	+5V (2.5A to 5.0A)	60mV peak dev., 500µs recovery
	12V, 15V, 24V, (50% to 100% FL)	100mV peak dev., 500µs recovery
Temperature coefficient	All outputs	±0.02%/°C, max.
Overvoltage protection	+5V output	6.25V ±0.75V
Output power limit		Pin 90W max. Pout 70W, min.
INPUT SPECIFICATION	IS	
Input voltage range	110VAC 230VAC	90 to 132VAC 180 to 264VAC
Input frequency range		47Hz to 440Hz
Input surge current	230VAC	14A
Safety ground leakage current	110VAC, 60Hz	0.5mA, max.

## **International Safety Standard Approvals**



VDE0805/EN60950/IEC950 File No. 10401-3336-1003 Licence No. 1230



**TU** UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062C/LR50913C/LR101320



XL50-4601 Certificate No. 601004, XL50-4602 Certificate No. 601003, XL50-4603 Certificate No. 601002

ELECTROMAGNETIC	COMPATIBILITY SE	PECIFICATIONS
Conducted emissions	EN55022, EN5501 FCC, VDE0871	Level B Level B
GENERAL SPECIFICA	TIONS	
Hold-up time	110/230VAC	30ms typ.
Efficiency		70% typical
Isolation voltage	Input/output Input/chassis	3000VAC 1500VAC
Switching frequency	Fixed	20kHz min.
Approvals and standards	Safety IE	VDE0805, EN60950 C950, UL1950, BABT CSA C22.2 No. 950
Weight		550g (19.42oz)
MTBF		460,000 hours
ENVIRONMENTAL SPI	ECIFICATIONS	
Thermal performance	Operating Non-operating 0°C to +50°C, convection coolec +50°C to +70°C, convection coolec	Derate
Relative humidity	Non-condensing	5% to 95% RH
Altitude	Operating Non-operating	10,000 feet max. 30,000 feet max.
Vibration, See Note 4	5Hz to 500Hz	1G Peak

# 60 Watt AC/DC user-selectable input switch mode power supplies

OUTPUT		OUTPUT VOLTAGE AND CURRENT (1)			REGULATION (2,3)		NOISE	MODEL
POWER	V1	V2	V3	V4	V1	V2, 3, 4	PK-PK	NUMBER
60W	+5V@6A*	+12V@3A*	-12V@0.7A	-5V@0.7A	±3.0%	±5.0%	1.0%	XL50-4601
60W	+5V@6A*	+24V@2A*	-12V@0.7A	+12V@0.7A	±4.0%	±5.0%	1.0%	XL50-4602
60W	+5V@6A*	+12V@3A*	-12V@1.5A	+12V@0.7A	±3.0%	±5.0%	1.0%	XL50-4603
60W	+5V@6A*	+15V@2A*	-15V@0.7A	-5V@0.7A	±4.0%	±5.0%	1.0%	XL50-4604

- Peak current in excess of the maximum indicated rating may be available on some outputs. However, this will affect output regulation. Consult factory for details.
- For stated regulation:

\*  $0.4 \le l_1/l_2 \le 6$  and  $l_1 + l_2 \le 8A$  where  $l_1$  is V1 output current and  $l_2$  is V2 output current.

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: XL50-4601: 5V/1A, +12V/500mA

XL50-4602: 5V/1A, +24V/400mA

XL50-4603: 5V/1A, +12V/500mA +12V/1A

XL50-4604: 5V/1A, +15V/500mA

- Three orthogonal axes, sweep at 1 octave per minute. 30 minute dwell at each major resonance.
- Fuse is rated at 2A/250V.
- This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.

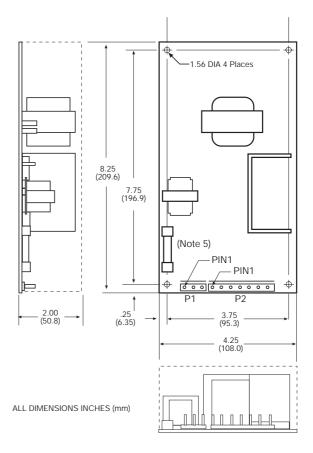
PIN CONNECTIONS						
P1	-4601	-4602	-4603	-4604		
Pin 1	AC Live	AC Live	AC Live	AC Live		
Pin 2	AC Neutral	AC Neutral	AC Neutral	AC Neutral		
Pin 3	AC Ground	AC Ground	AC Ground	AC Ground		
P2						
Pin 1	-5V	+12V	+12V	-5V		
Pin 2	-12V	-12V	-12V	-15V		
Pin 3	+12V	+24V	+12V	+15V		
Pin 4	Return	Return	Return	Return		
Pin 5	Return	Return	Return	Return		
Pin 6	+5V	+5V	+5V	+5V		
Pin 7	+5V	+5V	+5V	+5V		

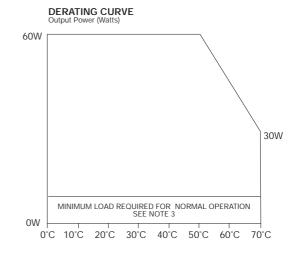
### AC mating connector

Molex 09-92-0500 or equivalent with 2478 series crimp terminal or equivalent.

## DC mating connector

Molex 09-92-1300 or equivalent with 2478 series crimp terminal or equivalent.







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