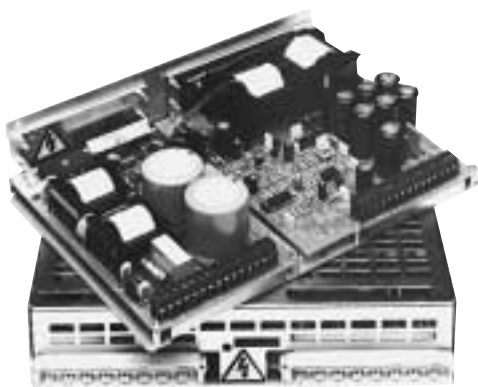
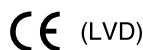




[2 YEAR WARRANTY]



LX200 SERIES

Flexible single and multiple outputs

- **200W continuous, 300W peak output power**
- **Industry standard footprint, low profile**
- **Conducted noise to meet EN55022 class B**
- **AC and DC input voltage options in same package**
- **Efficiency up to 88%**
- **Optional power sharing/VME signals board**
- **Autoranging input option**

The LX200 series offers 200 Watts of continuous output power in a low profile industry standard footprint. With two single output options and a flexible multiple output version, the series can address most power requirements as standard. The design is specifically tailored to allow full flexibility and modifications to meet customer applications can be implemented with relative ease. The LX200 AC input series meets the safety requirements of EN60950, VDE0805, UL1950 and CSA C22.2 No. 950. Input conducted noise levels meet the requirements of FCC and EN55022 class B. LX200 series power supplies are ideal for use in applications such as point-of-sale equipment, central and public telecom power systems and network equipment.

SPECIFICATION

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

OUTPUT SPECIFICATIONS		
Voltage adjustability	Vout on singles +5V output on multiple	-8%/+16% ±20%
Remote sense		±10%
Line regulation (LL to HL, FL)	Single outputs Multiple: +5V output Multiple: aux. outputs, Note 5	±0.2% ±0.2% ±0.5%
Load regulation (20% to 100% FL)	Single outputs: Multiple: +5V output Multiple: -5V output Multiple: ±12V, 24V, Note 5	±0.2% ±1.0% ±4.0% ±2.0%
Cross regulation	5A load step on main output Auxiliary outputs, Note 5	1.0%
Transient response	25% di/dt	1% max. dev., 1ms recov.
Temperature coefficient	Main/single output Multiple: auxiliary outputs	±0.02%/°C ±0.04%/°C
Overvoltage protection	Main/single output	130% ±10% Vout
Output power limit	Multiples: primary power limited Singles: current foldback	300W Pout 105%-120% Iout
Short circuit protection	All outputs	Yes
INPUT SPECIFICATIONS		
Input voltage range See Note 3	LX200-46xx models, (230VAC version) LX200-76xx models, autorange version Drop-out voltage	175 to 264VAC 98 to 132VAC 190 to 264VAC 90VAC
Input frequency		50Hz/60Hz
Input surge current		25A max.
Safety ground leakage current	115VAC, 60Hz 230VAC, 50Hz	1.6mA 2.5mA
Remote OFF		Logic 0 on ROF

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS		
Conducted emissions	EN55022, level A	
Radiated emissions	EN55022, level B	
ESD air	EN61000-4-2, level 3	Perf. criteria 1
ESD contact	EN61000-4-2, level 4	Perf. criteria 1
Surge	EN61000-4-5, level 3	Perf. criteria 1
Fast transients	EN61000-4-4, level 3	Perf. criteria 1
Radiated immunity	EN61000-4-3, level 3	Perf. criteria 2
Conducted immunity	EN61000-4-6, level 3	Perf. criteria 2
GENERAL SPECIFICATIONS		
Hold-up time	110/230VAC	28ms
Efficiency		82% min.
Isolation voltage	Input/output Input/chassis	3000VAC 1500VAC
Switching frequency	Fixed	44kHz
Approvals and standards	EN60950, VDE0805, UL1950 See Note 7	CSA C22.2 No. 950
Weight		1.3kg (46oz)
ENVIRONMENTAL SPECIFICATIONS		
Thermal performance	Operating Non-operating 0°C to +40°C ambient, convection cooled 40°C to 70°C ambient, convection cooled Peak (0°C to 40°C, max. 10s)	0°C to +70°C -25°C to +85°C 200W Derate linearly to 25% full load 300W
Relative humidity	Non-condensing	5% to 95% RH
Altitude	Operating Non-operating	10,000 feet max. 30,000 feet max.
Vibration	Operating, 5-50Hz Operating, 50-100Hz Non-operating	0.05mm pk-pk 0.025mm pk-pk 100mm drop on chassis face

200 Watt

AC/DC Universal input switch mode power supplies

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OUTPUT VOLTAGE	OUTPUT CURRENTS		RIPPLE		MODEL NUMBER (3)	
	MAX (1)	PEAK (2)	RMS	PK-PK	230VAC	AUTORANGE
+5.0V	20.0A	40.0A	0.2%	2.0%	LX200-4620	LX200-7620
-5.0V	4.0A	10.0A	0.2%	2.0%		
-12.0V	4.0A	10.0A	0.2%	2.0%		
+12.0V	8.0A	20.0A	0.2%	2.0%		
+24.0V	4.0A	10.0A	0.2%	2.0%		
24.0V (4)	9.0A	–	0.1%	1.0%	LX200-4624	LX200-7624
48.0V (4)	4.5A	–	0.1%	1.0%	LX200-4617	LX200-7617

PIN CONNECTIONS				
PIN NO	INPUT	MULTI O/P	SINGLE O/P	SIGNALS
1	Earth	PS	PS	SRS
2	N/C	ACF	ACF	ACF
3	Neutral	SRS	SRS	DCF
4	N/C	ROF	ROF	PM
5	Live	+5VS	0VS	PS
6	N/C	+5V	0V	ROF
7	115V	+5V	0V	+VS
8	Link	+5V	0V	0V
9	N/C	0V	0V	–
10	N/C	0V	0V	–
11	N/C	0V	+V _{out}	–
12	N/C	-5V	+V _{out}	–
13	N/C	-12V	+V _{out}	–
14	N/C	+12V	+V _{out}	–
15	N/C	+24V	+VS	–

OVERLOAD/SHORT CIRCUIT PROTECTION

The overload/short circuit protection mechanisms are different for the single output models and the multiple output model.

The single output models will current limit when the output load reaches 105-120% of maximum load during overload or short circuit conditions. The unit will operate in a constant current mode making the single output models suitable for battery charging applications.

The multiple output model uses a power limiting function. When the total output power reaches 300W the outputs will foldback to the values detailed below:

Output	Foldback Value
+5V	15A continuous
+12V	4A continuous
+24V	2A continuous
-5V/-12V	Protected by 4A Multi Fuse™

The outputs will not foldback until the total output power exceeds the maximum power limits. This allows the units to have a peak power capability but it requires that care must be taken not to permanently overload any individual output. The +5V, +12V and +24V outputs are not individually protected and it is recommended that the maximum continuous load does not exceed the value given in the output specifications. The -5V and -12V outputs are individually protected by a 4A Multi Fuse™ and the maximum continuous load should not exceed the value given in the output specifications.

Notes

- The multiple output LX200 has a continuous output power rating of 200W. The single-output versions have a continuous output power rating of 216W.
- Peak power figures for individual outputs on the multiple output unit are for less than 10 seconds duration. The overall peak power for the unit is 300W for 10 seconds duration.
- The LX200 is available with a standard 230VAC input operation (order LX200-46xx) or the input board can be fitted with an autorange circuit which automatically senses the input voltage and switches to the appropriate voltage range (order LX200-76xx).
- Single output models are adjustable -8%, +16%.
- A 10% load on the main output is necessary to maintain regulation on the auxiliaries at full load (multiple output model).
- This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- Consideration should be given to measuring the temperature on the main transformer (T1) when the power supply is installed in end-use equipment. The measured temperature on T1 must not exceed 90°C. For further information on the LX200 safety approvals, contact Computer Products.

Options

- DC input models for 24V and 48V operation are detailed on the LX200, LX350 and LX550 series DC/DC converter data sheet on page 170.
- A cover and signals board are available as options. To order, add the suffixes '-C', '-S' respectively, see table below.

OPTIONS	SUFFIX	EXAMPLE
None		LX200-76xx
Cover	-C	LX200-76xx-C
Signals	-S	LX200-76xx-S
Cover and Signals	-C-S	LX200-76xx-C-S

SIGNALS (OPTIONAL)

An optional signals board supplies the following VME utility bus signals:

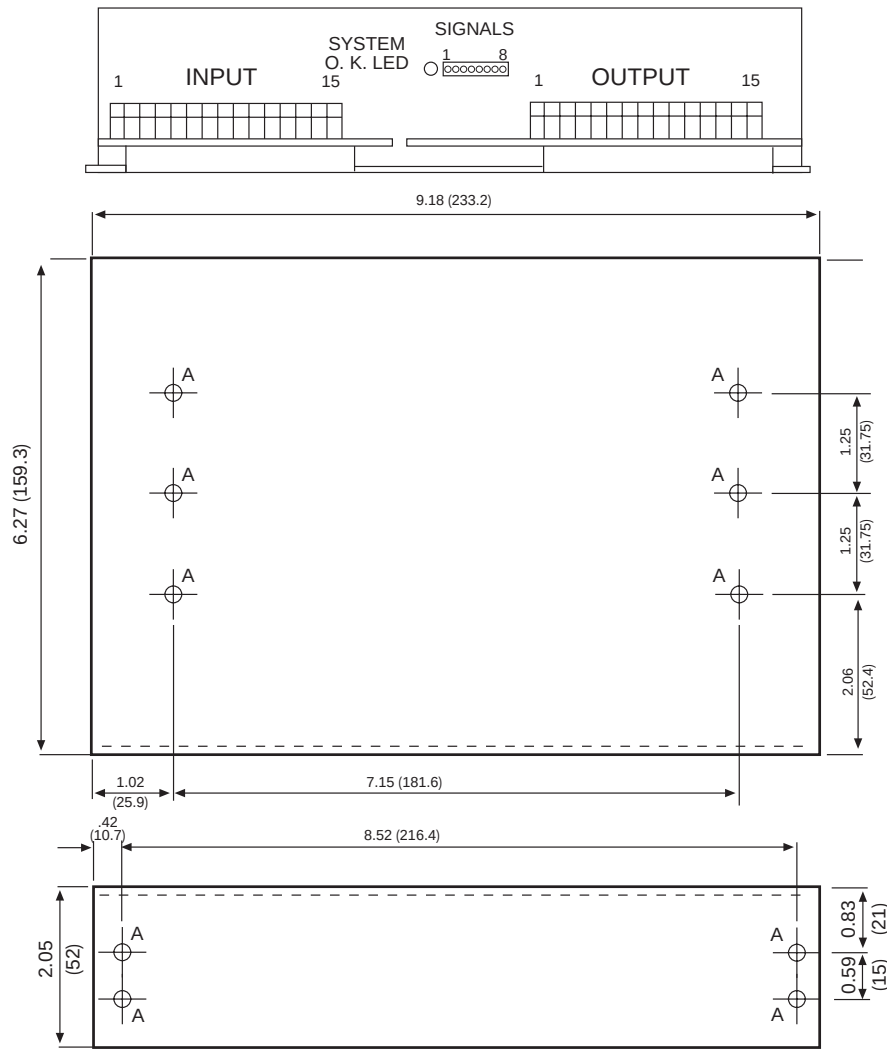
- ACF (AC Fail) Logic 1 to 0 transition occurs >10ms before outputs fall below 80%-85% of nominal in the event of input failure.
- DCF (DC Fail) Logic 0 occurs if output falls below 85%-95% of nominal.
- SRS (System Reset) Logic 1 for system OK (AC and DC good and reset times [200ms])
- PM Power Monitor signal, proportional to the output power, ratio of 20mV/W $\pm$ 10%.
- PS Power Share connections, to be joined for parallel operation of two or more units, ensuring equal power share. For power share operation unit outputs need to be set to $\pm$ 5% of each other and should be connected in star configurations with the load as star centre.

200 Watt AC/DC universal input switch mode power supplies

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Mechanical notes

- A Input and output connectors are 15 way terminal block, 5mm pitch.
Signals board option is 8 way, single row right angle 0.1", Molex 910210128, this mates with 90147 1108 or equivalent.
- B Customer fixing screws (A) are M3 isometric. They must not penetrate into unit by more than 5mm.



ALL DIMENSIONS IN INCHES (mm)

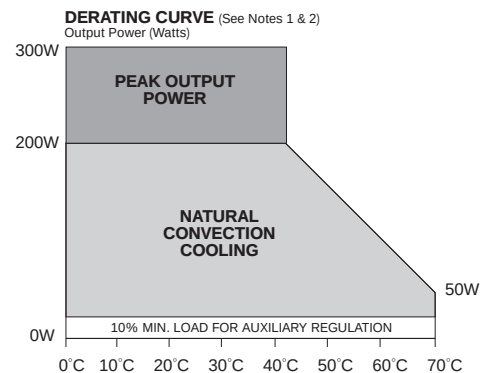
International Safety Standard Approvals

Multiple output and 24V Single output units are approved to these standards. Safety approval pending for 48V output model. See Note 7

EN60950/VDE0805 Reg. File No. 90371

UL1950 File No. E136005

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



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