



[2 YEAR WARRANTY]

L2000 SERIES

Single output

- Load currents up to 400A
- 3 phase or single phase input
- Shutdown on phase loss
- 3 phase power factor correction
- Single wire current share to 5%
- Ideal for N+1 applications
- Current monitor output included
- UL, CSA, TÜV safety approvals

The L series is a range of single output, high current power supplies ideally suited to a broad range of applications. Robust performance and field proven reliability are hallmarks of this series. Field reliability in excess of 100,000 hours has been documented. The L series will provide stable power for any large electronic system including telecommunication, data processing and industrial. Typical applications include broadcast systems, ATM systems and RISC processors and systems. Semiconductor test equipment, semiconductor and wafer processing equipment and functional board level testers are other possible applications. Industrial uses include applications such as laser cutting, water purification, battery charging, machine control, large scale data logging and optical inspection equipment. Current sharing, built-in current monitoring, voltage margining and remote adjustment capability are standard features. Other system interface features include AC and DC good, OVP, OCP, over temperature protection and remote enable. Worldwide safety certifications are included.

SPECIFICATION

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

OUTPUT SPECIFICATIONS			EMC CHARACTERISTICS		
Voltage adjustability	Accessible at front panel	±10%	Radiated noise	EN55022/11, FCC part 15	Level A
Remote sense	Open/reverse sense lead protection Compensates for voltage drop of up to 0.5V to the load		Conducted noise	EN55022/11, FCC part 15	Level A
Regulation, line or load	All outputs, NL to FL at nominal line or all line variations at FL	±0.2%; 10mV	Electrostatic discharge	EN61000-4-2	Level 3
Overshoot/undershoot		None at turn on/off	RF field susceptibility	EN61000-4-3	Level 3
Transient response	Main output 25% step load change at 1A/µs	≤5.0% max. dev., ≤200µs recovery to 1.0%	Electrical fast transients/bursts	EN61000-4-4	Level 3
Temperature coefficient		±0.02%/°C	Surge susceptibility	EN61000-4-5	Level 3
Ripple and noise	0Hz to 20MHz	50mV pk-pk or 1.0%			
Overvoltage protection	Reset by cycling AC	115% to 130% of nominal			
Overload protection		105% to 115% full load			
Short circuit protection	90% of rated load	Auto recovery			
Thermal protection		Auto shutdown, AC reset			
Current sharing	±5.0%	50% to 100% load			
Current monitor (V1)	5VDC at full load	±0.5V			
INPUT SPECIFICATIONS					
Input voltage range	3 phase 1 phase (optional)	180 to 264VAC	Thermal performance	Operating ambient Non-operating	0°C to +50°C -15°C to +85°C
Input frequency range		180 to 264VAC	Cooling	45CFM	Internal DC ball bearing fan
Input surge current		47Hz to 63Hz	Relative humidity	Non-condensing	0% to 95% RH
Input current	Meets IEEE std. 587.1980; 3kV ring wave	8A 20A	Altitude	Operating Non-operating	6,000 feet max. 55,000 feet max.
Power factor	208VAC, 3 phase 208VAC, 1 phase	0.94 0.65	Vibration	5Hz to 500Hz	2.4G rms peak
Power up time	Full load	1.0s max.			

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2000 Watt AC/DC high current power supplies

MAX. OUTPUT POWER	INPUT VOLTAGE ⁽³⁾	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL NUMBER ⁽³⁾
2000W	Single Phase	2V	400A	L2000-26-0
2000W	Single Phase	3.3V	400A	L2000-26-9
2000W	Single Phase	5V	400A	L2000-26-1
2000W	Single Phase	12V	166A	L2000-26-2
2000W	Single Phase	15V	133A	L2000-26-3
2000W	Single Phase	24V	83A	L2000-26-4
2000W	Single Phase	28V	71A	L2000-26-5
2000W	Single Phase	48V	42A	L2000-26-6
2000W	Three Phase	2V	400A	L2000-86-0
2000W	Three Phase	3.3V	400A	L2000-86-9
2000W	Three Phase	5V	400A	L2000-86-1
2000W	Three Phase	12V	166A	L2000-86-2
2000W	Three Phase	15V	133A	L2000-86-3
2000W	Three Phase	24V	83A	L2000-86-4
2000W	Three Phase	28V	71A	L2000-86-5
2000W	Three Phase	48V	42A	L2000-86-6

STANDARD CONTROL SIGNALS	
Remote Enable	See Figure 1A
DC OK (See Figures 2, 5)	Signal remains "Hi" as long as output is $\pm 5.0\%$ of nominal
AC Good (See Figures 2, 5)	Signal "Hi" when AC $> 175\text{VAC}$ and "Lo" when $< 175\text{VAC}$
Margin Hi/Lo (V1) (See Figure 3)	Switch closure allows $\pm 5\%$ change in output for system margin checking
Remote Adjust (See Figure 4)	The outputs may be remotely adjusted linearly $\pm 10\%$ for system margin checking
Current Monitor	Analog signal indicates load current in single or parallel operation. $5 \pm 0.5\text{VDC}$ represents FL, resistive load $10^9\text{k}\Omega$
Supply Fault	Overvoltage, overtemperature indicated by 'low' signal

Note

- 1 Units available with 4.5V, 5.2V, 10V, 13V, 20V, 30V and 32V. Please consult factory for further details.
- 2 Consult factory for any output voltage requirement up to 60VDC which is not listed.
- 3 Models with '-26' are single phase input; '-86' indicates 3 phase input.

FIG. 5
AC Power Fail Signal/DC OK Timing

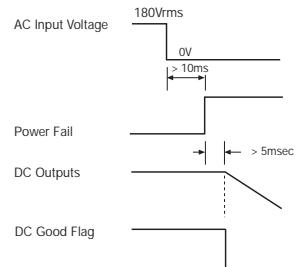


FIG. 1A

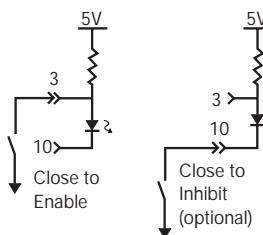


FIG. 1B

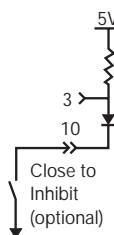


FIG. 2 (Ref. FIG. 5)

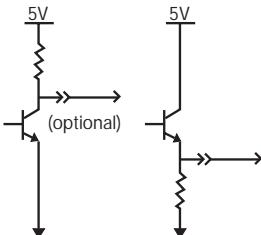


FIG. 3

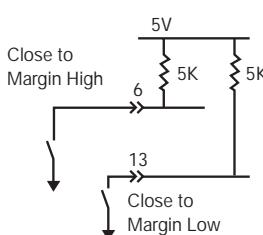
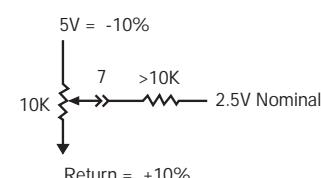


FIG. 4



2000 Watt AC/DC high current power supplies

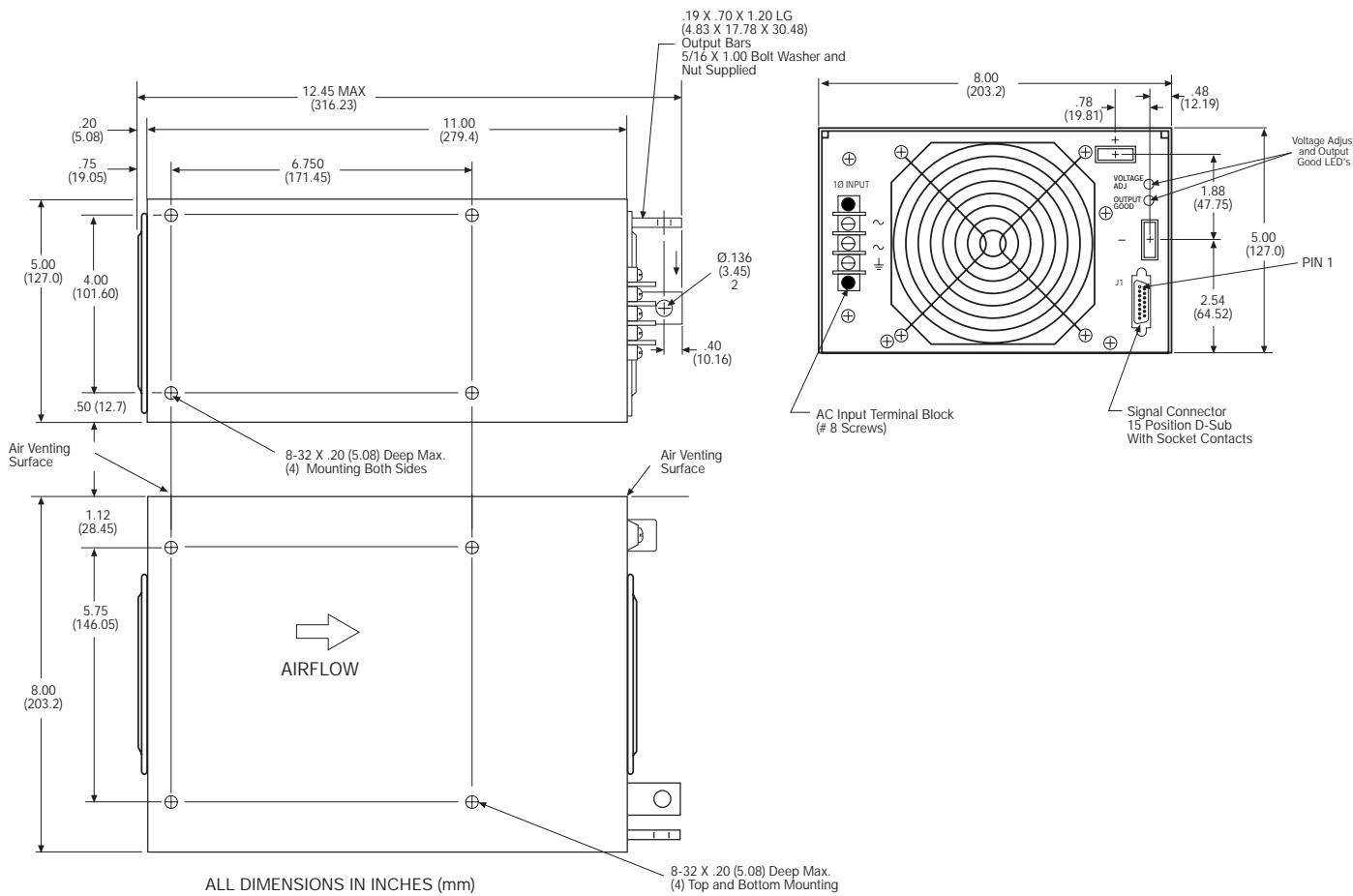
OUTPUT PIN CONNECTIONS		
PIN NO.	J1	REFERENCE
1	+ Remote Sense	Note 1
2	- Remote Sense	Note 1
3	Enable	Notes 2 & 4, Fig. 1
4	DC OK Inverse (Optional)	Notes 3 & 4, Fig. 2
5	AC Good Inverse	Notes 3 & 4, Fig. 2
6	Margin High	Fig. 3
7	Remote Adjust	Fig. 4
8	Current Monitor	Note 6
9	Current Share	Note 6
10	Inhibit (Optional)	Notes 2 & 4, Fig. 1
11	DC OK	Notes 3 & 4, Fig. 2 & 5
12	AC Good	Notes 3 & 4, Fig. 2 & 5
13	Margin Low	Note 3
14	Supply Fault	Notes 5 & 6
15	- Remote Sense	

Mechanical notes

- A AC connector is 3 position terminal block (#8 screws included), mating to #8 ring tongue terminal.
- B DC output is 5/16-18 studs mating to 5/16 terminal lugs.
- C J-1 signal connector is Molex 39-30-1140 or equivalent. Mating connector is Molex 39-01-2140 or equivalent.
- D J-2 signal connector is Molex 39-01-1120 or equivalent. Mating connector is 39-01-2120 or equivalent.
- E Signal connector contacts are Molex 39-00-0039 or equivalent.
- F Auxiliary DC output(s) are 6 position terminal block (#8 screws included) mating to #8 ring tongue terminal.
- G TB1 and J2 are not installed on single output models.

Output pin connector notes

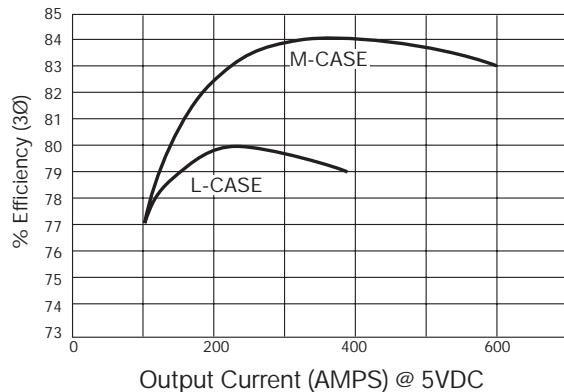
- 1 Use 20AWG or larger twisted pair.
- 2 Switch on voltage must be <0.5V @ 5mA.
- 3 Figure 2 transistor on when signal TRUE. On voltage is <0.5V @ 5mA.
- 4 V_{CC} in figures 1 and 2 is supplied internally; ground is pin 15.
- 5 Overvoltage and overtemperature will force fault TRUE. On voltage is <0.5V @ 5mA.
- 6 All I/O signals are referenced to pin 15.



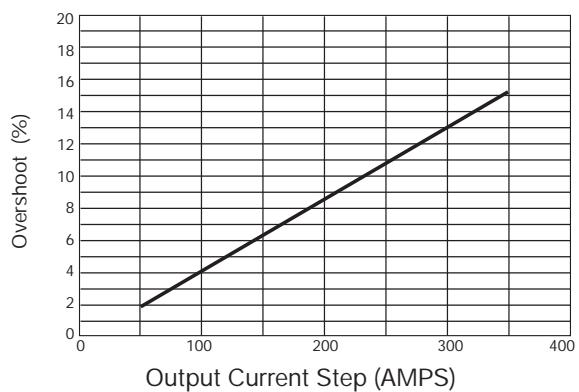
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2000 Watt AC/DC high current power supplies

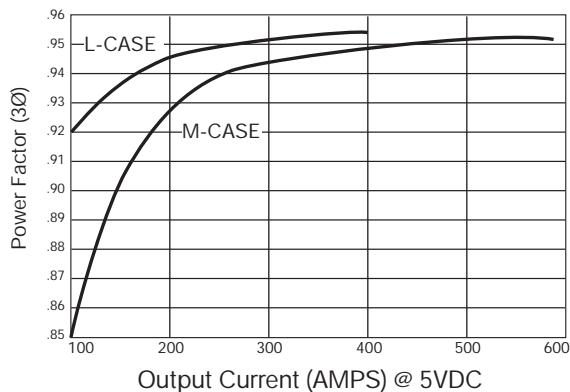
EFFICIENCY V'S OUTPUT CURRENT



TRANSIENT RESPONSE



POWER FACTOR V'S OUTPUT CURRENT



International Safety Standard Approvals

TÜV VDE0805/EN60950/IEC950 File No. R9172195

UL UL1950 File No. E135734

CSA CSA C22.2 No. 950 Bulletin No. 1402C