

## [ 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 $\mathbf{N + 1}$ 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 $25^{\circ} \mathrm{C}$ unless otherwise stated



PAGE 1

## AC/DC high current power supplies

| MAX OUTPUT <br> POWER | INPUT <br> VOLTAGE (3) | OUTPUT <br> VOLTAGE | OUTPUT <br> CURRENT | MODEL |
| :---: | :--- | :---: | :---: | :---: |
| NUMBER (3) |  |  |  |  |

## STANDARD CONTROL SIGNALS

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

Note
1 Units available with 4.5V, 5.2V, 10V, 13V, 20V, 30 V and 32 V . 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. 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 J 2 are not installed on single output models.

## Output pin connector notes

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


EFFICIENCY V'S OUTPUT CURRENT


TRANSIENT RESPONSE


## POWER FACTOR V'S OUTPUT CURRENT



