

# LPBA Series Up to 200W

## Rugged, EMI Filtered, AC to DC Power Supply



### Product Highlights:

- Low Profile, Compact Size
- Fixed Frequency Operation
- Power Factor >0.99, 115VAC line, 25°C typical
- On/Off Logic Control (Inhibit) TTL Hi = OFF
- Remote Sense compensates up to 0.5V
- N+1 Current Sharing via single wire connection
- MIL-STD-461D EMI Filtering
- MIL-STD-810 Environments
- MIL-STD-704A, MIL-STD-1399 Type I
- Over-Temperature Shutdown
- -40°C to +85°C Operating – Baseplate

General Specifications						
Model No.	LPBA12	LPBA17	LPBA24	LPBA28	LPBA28-106 *Derate 50°C	LPBA48
Input Voltage	92-138VAC	92-138VAC	92-138VAC	92-138VAC	187-253VAC	92-138VAC
Frequency Range	47-440Hz	47-440Hz	47-440Hz	47-440Hz	47-63Hz	47-63Hz
Output Voltage	12VDC	17VDC	24VDC	28VDC	28VDC	48VDC
Output Current	8.3A	5.90A	8.25A	7.20A	*7.20A-5.20A	4.16A
Physical Size	0.96"H x 3.00"W x 6.00"L maximum (excludes connector mounting)					

Electrical Specifications						
Model No.	LPBA12	LPBA17	LPBA24	LPBA28	LPBA28-106	LPBA48
Line Regulation (Lo Line to Hi Line)	12mV	17mV	24mV	28mV	28mV	48mV
Load Regulation (1/2-FL, w/ sense)	120mV	170mV	24mV	28mV	28mV	48mV
PARD(Ripple/Noise) DC- 20MHz	240mV	340mV	480mV	560mV	500mV	960mV
Overcurrent Setpoint	135% ±15%	125% ±15%	125% ±15%	125% ±15%	125% ±15%	125% ±15%
Short Circuit Current	< 8.3A	< 5.9A	< 8.2A	< 7.2A	< 7.2A	< 4.1A
Overvoltage Set	12.6V-13.8V	17.9V-19.5V	25.2V-27.6V	29.4V-32.2V	29.4V-32.2V	50.4V-55.2V
Load Step Recovery (1/2 to FL)	0.5mS	0.5mS	0.5mS	0.5mS	0.5mS	0.5mS
Turn-on Overshoot	<5%	<5%	<5%	<5%	<5%	<5%
Efficiency (typical)	76%	77%	78%	78%	78%	79%
Isolation	> 100MΩ @ 500VDC, Input to Output and Input to Case; > 100MΩ @ 50VDC Output to Case					
EMI Filtering	MIL-STD-461D, CE101 and CE102 on the input, CS101, CS114, CS116, RE101, RE102, RS103					
Output Power	100W	100W	200W	200W	200W	200W

Temperature Specifications	
Operating Baseplate Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Temperature Coefficient	0.02%/°C -40°C to +85°C

Note: Other output voltages and Environmental Screening also available. Please consult factory for details.



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Note: Specifications subject to change without notice.

09/18/12

LPBA Series

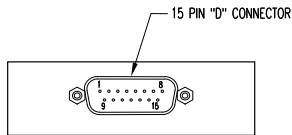
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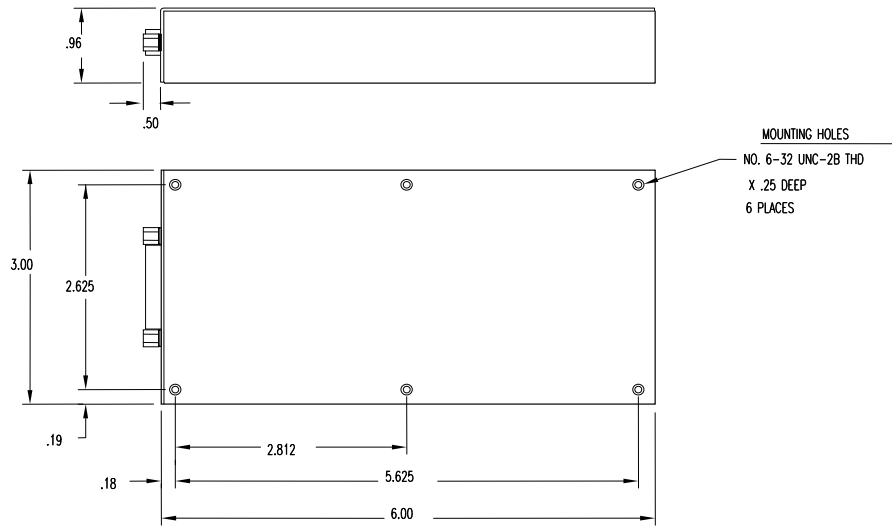
Environmental Specifications	
Pressure-Altitude	Per MIL-STD-810F, Method 500.4, Procedure I and II
High Temperature	Per MIL-STD-810F, Method 501.4, Procedure I and II
Low Temperature	Per MIL-STD-810F, Method 502.4, Procedure I
Humidity	Per MIL-STD-810F, Method 507.4, Procedure I
Fungus	Per MIL-STD-810F, Method 508.5, Procedure I
Salt Fog	Per MIL-STD-810F, Method 509.4, Procedure I
Sand and Dust	Per MIL-STD-810F, Method 510.4, Procedure I and II
Explosive Atmosphere	Per MIL-STD-810F, Method 511.4, Procedure I
Acceleration	Per MIL-STD-810F, Method 513.5, Procedure I and II
Vibration	Per MIL-STD-810F, Method 514.5, Procedure I, Category 1, 4, 7 thru 14 and 16 thru 21
Shock	Per MIL-STD-810F, Method 516.5, Procedure I, IV

Physical Characteristics	
Maximum Case Size	0.96"H x 3.00"W x 6.00"L max. (Excludes connector mounting)
Cooling Method	Conduction cooled through baseplate
Encapsulation	Clear RTV, GE615
Enclosure Finish	Black Anodize per MIL-A-8625F, Type II, Class 2
Baseplate Finish	Gold Iridite MIL-C-5541E, Class 1A
Input/Output Termination	DA-15P Connector (See Pin-out Table below)
Mounting Holes Standard (4) Threaded Baseplate	Baseplate 6-32 UNC-2B THD x 0.25 Deep (6 places)
Weight	20 oz. typical

### Outline and Mounting:



SIGNAL	PIN
AC LINE	1
SPARE	2
SPARE	3
N+1 SHARE	4
+SENSE	5
+28VDC OUT	6
+28VDC OUT	7
+28VDC OUT	8
AC NEUTRAL	9
CHASSIS GND	10
INHIBIT	11
-SENSE	12
-28VDC OUT	13
-28VDC OUT	14
-28VDC OUT	15



BOTTOM VIEW



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