

Single Output Industrial Power Supplies

Features

- ◆ 5 Year Warranty
- ◆ -40°C to +71°C Operation
- ◆ MIL-STD-810E Vibration / Shock
- ◆ Input transient protected
- ◆ UL508, SEMIF47, Factory Mutual (Class 1, Division 2)
- ◆ Rugged mechanical design with coating on pcbs
- ◆ Superior thermal design
- ◆ Wide range adjustment of output



Key Market Segments & Applications

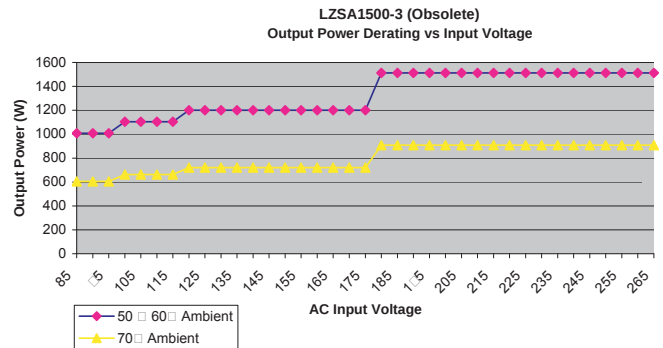


Specifications				
Model		LZSA500	LZSA1000	LZSA1500
Input Voltage (47-440Hz) (*)	-	85 - 265VAC (LZSA1500 - see output derating graphs on page 2), 100-380VDC (1)		
Inrush Current (110 / 220VAC)	A	25 / 45A	30 / 40A	
Power Factor	-	EN61000-3-2 Class A		
Efficiency (typical)	%	84%		
Ripple & Noise (Pk-Pk)(max)	-	75mV	75mV	24V: 75mV; 48V: 150mV
Line Regulation	%	0.1%		
Load Regulation	%	0.1%		
Transient Response	-	±1% deviation, recovering to ±0.2% in <1.25ms (25% load change)		
Overcurrent Protection	-	110 - 130%		
Overvoltage Protection	V	User adjustable from front panel		
Thermal Protection	-	Internal thermostat. Recycle AC to reset		
Hold Up Time at 110VAC	ms	20ms Hold Up, 20ms Ride Through		
Remote Sense	-	Compensates for a total of 1V cable drop		
Remote Adjust	-	Using front panel potentiometer, Resistance (1k/V), or Voltage (1V/V)		
Remote On / Off	-	TTL compatible, active high		
Signals	-	Optocoupled transistor for AC Fail, DC Good, Inverter OK. 200kHz sync signal (Ref-sense)		
Indicators	-	Green LED indicates output good, red LED indicates overvoltage or over temperature		
Parallel Connection	-	Single wire current share		
Operating Temperature	°C	-40° to +71°C, derate linearly to 60% load from 60°C~71°C (20 min warm up period needed for <-30°C)		
Storage Temperature	°C	-40° to +85°C		
Temperature Coefficient	-	0.01%/°C		
Humidity (non condensing)	%RH	10 - 90%RH		
Cooling	-	Internal fan		
Withstand Voltage	-	Input - Ground 2,121VDC, Input - Output 4,242VDC, Output - Ground 500VDC		
Vibration	-	MIL-STD-810E, Method 514.4, Category 1, 9		
Shock	-	MIL-STD-810E, Method 516.4 Proc. I, II, IV, VI		
Safety Agency Certifications	-	UL/CSA60950-1, UL508, EN60950-1, FM 3600, 3611, 3810, & CE Mark. SEMIF47(>100VAC)		
Leakage current	uA	<500uA at 265VAC, 60Hz		
Emissions	-	EN55022/EN55011 Class B, EN61000-3-3, MIL STD 461/462D CE102		
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11. IEEE C62.41 (6kV/30 Ohm, Criteria A)		
Altitude	m	3,000m operating, 12,000m non operating		
Weight	lbs	6.5	8.1	
Size (WxHxD)(w/o bus bars)	ins	4.25 x 4.75 x 10.25	5.62 x 4.75 x 10.5	
Warranty	yrs	Five Years		

(1) Startup > 110VDC

Notes: (Consult Installation Manual for detailed specifications, test methods and application notes) (*) Reduced power factor above 63Hz

AC Input Voltage (V)	50°C Ambient (W)	60°C Ambient (W)	70°C Ambient (W)
85	1100	1000	650
90	1250	1150	750
100	1500	1400	850
105	1500	1400	850
110	1500	1400	850
115	1500	1400	850
120	1500	1400	850
125	1500	1400	850
130	1500	1400	850
135	1500	1400	850
140	1500	1400	850
145	1500	1400	850
150	1500	1400	850
155	1500	1400	850
160	1500	1400	850
165	1500	1400	850
170	1500	1400	850
175	1500	1400	850
180	1500	1400	850
185	1500	1400	850
190	1500	1400	850
195	1500	1400	850
200	1500	1400	850
205	1500	1400	850
210	1500	1400	850
215	1500	1400	850
220	1500	1400	850
225	1500	1400	850
230	1500	1400	850
235	1500	1400	850
240	1500	1400	850
245	1500	1400	850
250	1500	1400	850
255	1500	1400	850
260	1500	1400	850
265	1500	1400	850



FRONT VIEW

Labels: INDICATOR LIGHTS, V OUT ADJ., OV ADJ., 2 POSITION AC INPUT TERMINAL BLOCK SCREW SIZE #6-32, #6-32 SCREW FOR LINE CORD CLAMP, #6-32 GROUND STANDOFF, REMOTE ON/OFF ENABLE SWITCH, 4 POSITION OUTPUT TERMINAL BLOCK, 0.28 [7.14mm] DIA. (2 HOLES PER BUS BAR), 1.00 [25.4mm] 2X, 0.63 [15.8mm], 2.50 [63.5mm], 12 PIN SIGNAL CONNECTOR, 15 PIN "D" CONNECTOR RECEPTACLE, OPTION BOARD.

SIDE VIEW

Labels: 1.25 [31.8mm] 2X, 10.50 [266.7mm]

REAR VIEW

Labels: 4.75 [120.6mm], 5.62 [142.8mm]

BOTTOM VIEW

Labels: AIRFLOW (SEE NOTE 1), 2.00 [50.8mm], 3.50 [88.9mm], 0.75 [19.0mm], M4 THREADED INSERTS .25" (6MM) MAXIMUM SCREW PENETRATION (4 PLACES), 5.50 [140.0mm]

NOTES:

1. CUSTOMER MUST PROVIDE ADEQUATE CLEARANCE (50MM MIN.) AT FRONT, SIDES, AND TOP SURFACES FOR AIR FLOW.
2. CUSTOMER MOUNTING SCREWS (M4x0.7) MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4" [6MM].
3. SEE INSTRUCTION MANUAL FOR ADDITIONAL INFORMATION.
4. DIMENSIONS ARE IN INCHES, EXCEPT DIMENSIONS IN [] ARE IN MM.

Model	Nominal Voltage (V)	Adjustment Range (V)	Maximum Current (A)	Maximum Power (W)
LZSA1000-2	12	10 - 15.75	84	1008
LZSA500-3	24	18 - 29.4	21	504
LZSA1000-3	24	18 - 29.4	42	1008
LZSA1500-3	24	18 - 29.4	63	1512
LZSA1500-3-001	24	18 - 29.4	63	1512
LZSA1500-4	48	36 - 56	31.5	1512

HWS	15W to 1800W Single Output
DLP, DPP, DSP	15W to 960W DIN Rail
PFE	300W to 1000W Power Modules

