



LZSA Series

Single Output Industrial
Power Supplies

- 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)

Key Market Segments & Applications

Factory Automation
Process & Controls
Harsh Environments

LZSA Features and Benefits

Features

- Rugged mechanical design
- Superior thermal design
- Wide range adjustment of output
- Input voltage transient protected

Benefits

- High reliability in harsh conditions
- Longer life even at 71°C operation
- Reduces need for custom outputs
- Reduced system filtering

Specifications

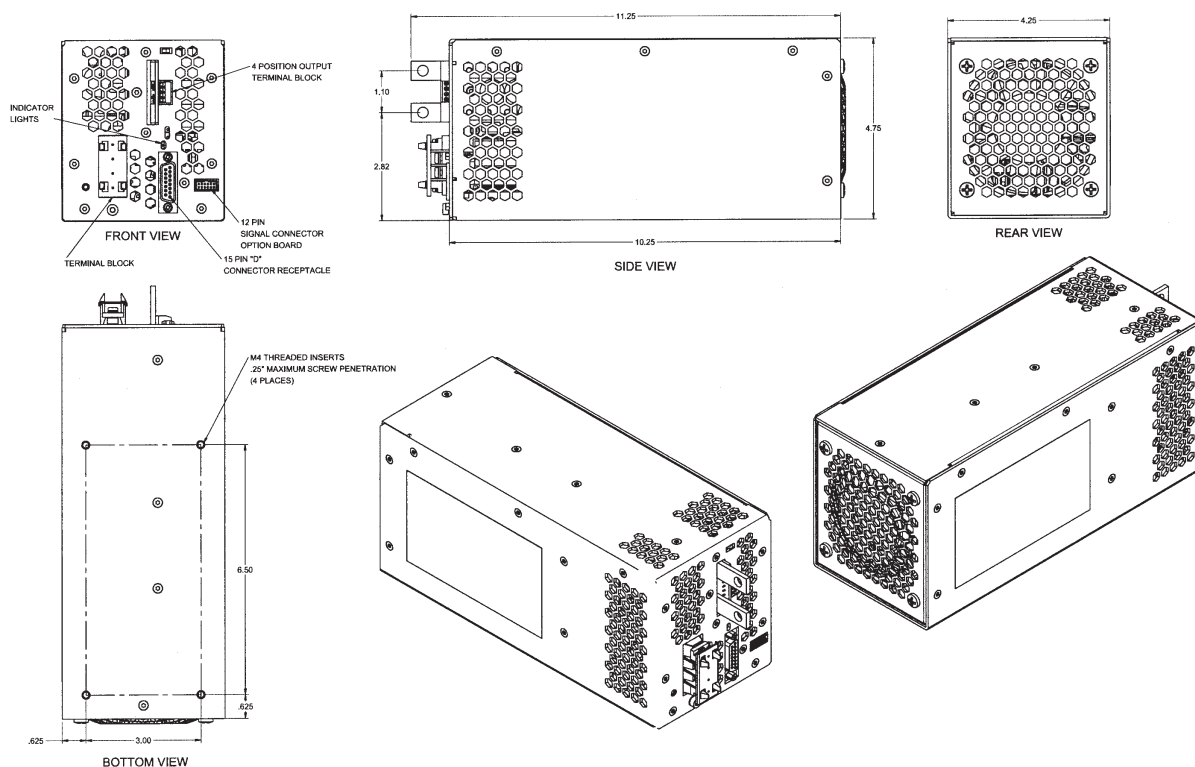
MODELS		LZSA500	LZSA1000	LZSA1500
ITEMS				
Input Voltage (47-440Hz)*	-	85 - 265V (1500W: See output rating below 100VAC) 100-400VDC		
Inrush Current (110 / 220VAC)	A	20 / 40A	40 / 80A	
Power Factor	-	EN61000-3-2 Class A		
Efficiency (typical)	%	84%		
Ripple & Noise (Max) Pk-Pk	-	75mV	75mV	24V: 75mV 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~+71, derate linearly to 60% load from 60~71 (20 min warm up period needed for <-30)		
Storage Temperature	°C	-40 to +85		
Temperature Coefficient	-	0.01%/°C		
Humidity (non condensing)	%RH	10 - 90		
Cooling	-	Internal fan		
Withstand Voltage	-	Input - Ground 2,121VDC, Input - Output 4,242VDC, Output - Ground 500VDC		
Vibration	-	MIL-STD-810E, Method 516.4 Proc. I, II, IV, VI		
Shock	-	MIL-STD-810E, Method 514.4, Category 1, 9		
Safety Agency Approvals	-	UL60950-1, 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 STD461/462D 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	kg	2.95	3.7	
Size (WxHxD)(w/o bus bars)	mm	108 x 121 x 260	143 x 121 x 267	
Warranty	yrs	5 Years		

Notes: (Consult Installation Manual for detailed specifications, test methods and application notes)

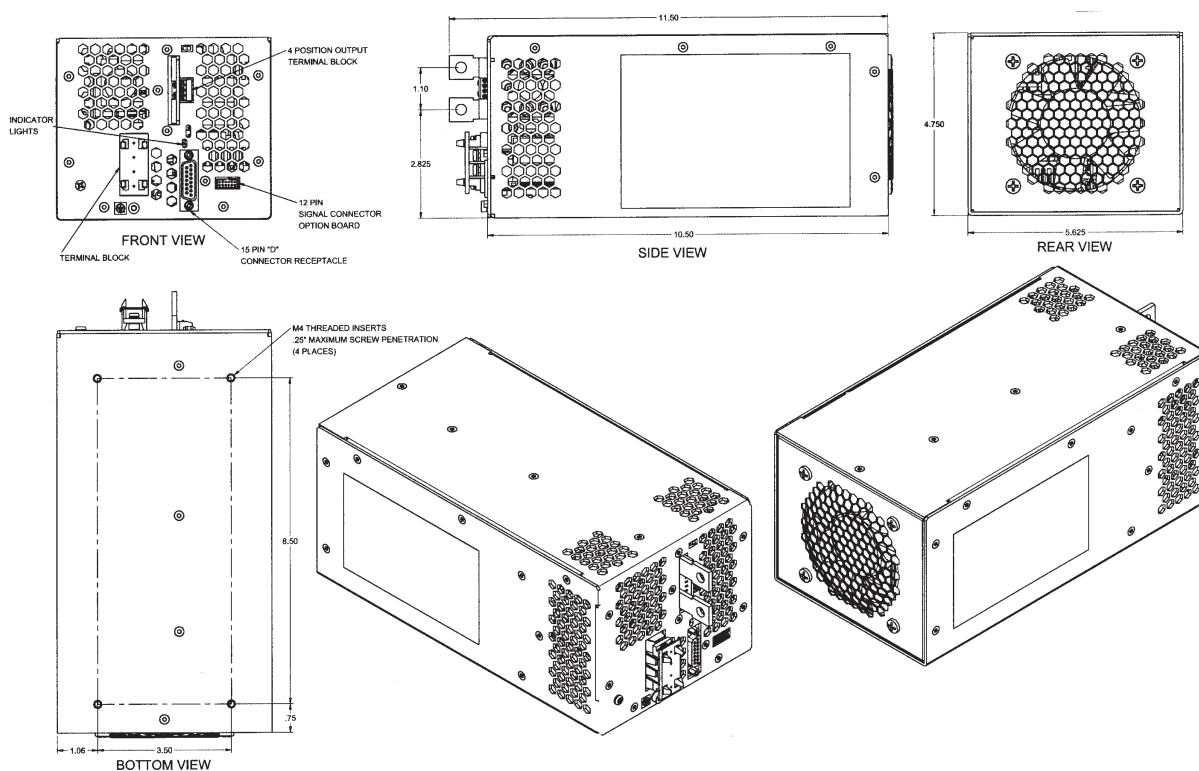
*Reduced power factor above 63Hz



Outline Drawing LZSA500



Outline Drawing LZSA1000/1500





Connection Diagram LZSA500 Series

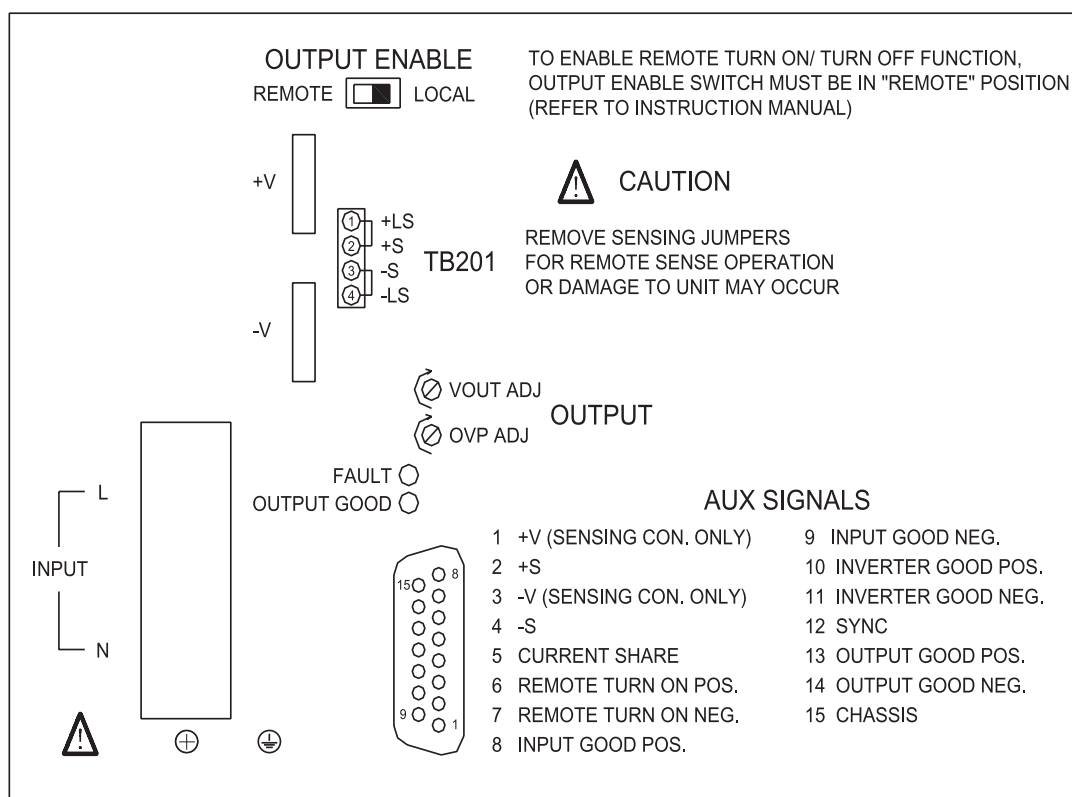


Figure 1 - PIN Assignments for TB201 and chassis mounted "D" connector

Model Selector

Model	Nominal Voltage (V)	Adjustment Range (V)	Maximum Current (A)	Maximum Power (W)
LZSA500-3	24	18 - 29.4	21	504
LZSA1000-2	12	10 - 15.75	84	1008
LZSA1000-3	24	18 - 29.4	42	1008
LZSA1500-3	24	18 - 29.4	63	1512 ⁽¹⁾
LZSA1500-4	48	36 - 56	31.5	1512 ⁽¹⁾

Note (1) 1512W @ 180-265VAC
1200W @ 120VAC
1104W @ 100 VAC
1008W @ 85VAC

For full data and drawings please visit
www.emea.tdk-lambda.com/www/lzsa



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