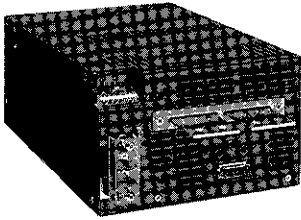


LZS/SE Series Power supplies for rugged environments



Harsh Environment

Meets Worldwide EMI Requirements

Input transient Protection

Meets Worldwide Safety Requirements

MIL-STD-810E Vibration/Shock

Auxiliary Monitoring Signals

Wide Range Output Voltage

5 Year Warranty

Single Wire Current Share

SE- Ruggedized 115VAC Input (Severe Line Transients)

Lambda's LZS and SE Series single output power supplies (250W to 1500W) are ideal for industrial applications requiring reliable performance under harsh operating conditions.

Through temperature extremes, high levels of vibration, shock, and random transients on the AC input, rugged construction and advanced design of the LZS and SE Series guarantee reliable performance. And their meticulous thermal design ensures that all internal components are operating significantly below the manufacturer's rating - even when the ambient operating temperature reaches 71°C. In addition, to ensure reliability in even the most rugged environments, the LZS and SE Series meet the rigorous requirements of MIL-STD-810E Shock and Vibration. Lambda designs these performance features in at the front end - without additional costs.

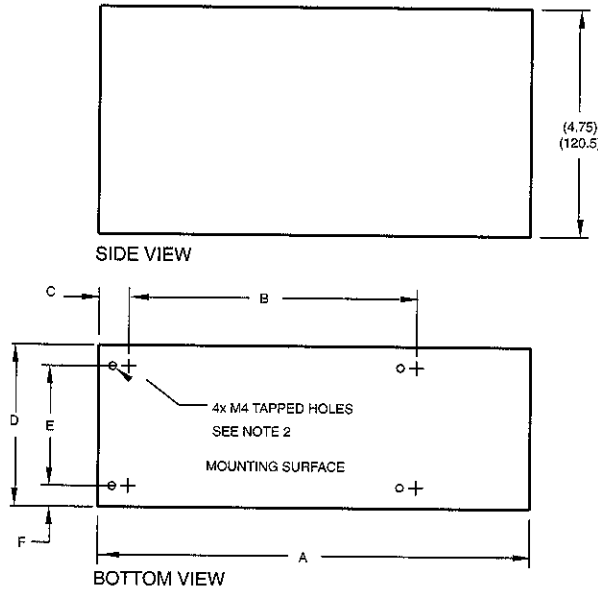
Similar products

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		OUTPUT	POWER (W)	MAX CURRENT AMPS AT				MODEL
				40°	50°	60°	71°	
AC Input	85-132/170-265VAC auto selectable, 7-440Hz on the LZS-250, 500, 750, 1000 & 1500. 105-140VAC on the SE Series.	5,6V (4.5-6.3)	250	50.0	45.0	40.0	30.0	LZS-250-1
DC Input	220-380VDC.		500	100.0	90.0	80.0	65.0	LZS-500-1
EMI	Conducted EMI conforms to FCC Part 15, Subpart J, Class B; VDE 0871 Curve B; and MIL-STD-461D, CE102.		750	150.0	135.0	120.0	90.0	LZS-750-1
DC Output Controls	A multi-turn potentiometer is provided for voltage adjustments.		1000	200.0	190.0	160.0	120.0	LZS-1000-1
			1500	300.0	270.0	240.0	180.0	LZS-1500-1
Line Regulation	0.1% for variations from low line to high line and high line to low line.	12,15V (10-15.75)	250	21.0	18.9	16.8	12.6	LZS-250-2
Load Regulation	0.1% for load variations from no load to full load and full load to no load.		500	42.0	37.5	33.5	27.0	LZS-500-2
Ripple and Noise	10mVRMS, 35mV pk-pk for -1 model. 10mVRMS, 50mV pk-pk for -2 model. 10mVRMS, 100mV pk-pk for -3 models.		750	63.0	56.5	50.0	37.5	LZS-750-2
Parallel Operation	3% max. current balance. Current sharing is achieved through a single wire connection.		1000	83.0	80.0	67.0	50.0	LZS-1000-2
			1500	125.0	112.5	100.0	75.0	LZS-1500-2
Overshoot	No overshoot at turn-on, turn-off or input power failure.	24,28V (18-29.4)	250	12.5	11.3	10.0	7.5	LZS-250-3
Overvoltage Protection	Inverter shutdown type OV protection is standard on all models.		250	12.5	11.3	10.0	7.5	SE-250-3
Overload Protection	Internal current limiting circuit resets automatically.		500	25.0	22.5	20.0	16.5	LZS-500-3
			500	25.0	22.5	20.0	16.5	SE-500-3
Cooling	Forced-air cooled via an internal fan.		750	37.5	33.5	30.0	22.5	LZS-750-3
Operating Temperature Range	Operation from -40°C to +71°C. A 20 min. warm-up for operation below -30°C.		750	37.5	33.5	30.0	22.5	SE-750-3
Storage Temperature	-40°C to +85°C.		1000	50.0	48.0	40.0	30.0	LZS-1000-3
			1000	50.0	48.0	40.0	30.0	SE-1000-3
Temperature Coefficient	0.025% per°C.		1500	75.0	67.5	60.0	45.0	LZS-1500-3
Isolation	Input to Output – 3000V RMS. Output to Chassis – 500V RMS. Input to Chassis – 1500V RMS.		1500	75.0	67.5	60.0	45.0	SE-1500-3
Remote On/Off	TTL compatible, active high.							
Remote Sensing	Internal circuitry allows for a 1.2V drop in output leads.							
Resistive Programming	1000 ohms/volt.							
Voltage Programming	Volt per Volt.							
Thermal Protection	Internal thermostat protects the power supply against fan failure or blockage. AC power must be recycled to restore operation.							
Mounting	One mounting surface and multiple mounting positions.							
Military Specifications	Shock – MIL-STD-810E, Method 516.4 Proc. I, II, IV, VI Vibration – MIL-STD-810E, Method 514.4 Category 1, 9.							
Safety Agency Approval	UL1950, CSA950, EN60950, CE Mark.							
Warranty	5 years.							

LZS/SE Series Power supplies for rugged environments

LZS250, 500, 750, 1000, 1500
SE250, 500, 750, 1000, 1500



DIMENSIONS:

MODEL	A	B	C	D	E	F
LZS,SE250	9.00 (228.6)	6.000 (152.4)	.62 (15.8)	3.37 (85.7)	2.500 (63.5)	.43 (11.0)
LZS,SE500	10.25 (260.3)	6.500 (165.1)	.62 (15.8)	4.25 (107.9)	3.000 (76.2)	.75 (15.8)
LZS,SE750	10.37 (263.5)	7.500 (109.5)	.62 (15.8)	5.00 (127.0)	3.500 (88.9)	.75 (15.8)
LZS,SE1000	10.50 (266.7)	6.500 (215.9)	.75 (19.0)	5.62 (142.8)	3.500 (88.9)	1.06 (26.9)
LZS,SE1500	11.00 (279.4)	8.000 (203.2)	.75 (19.0)	8.00 (203.2)	3.500 (88.9)	2.12 (54.0)

WEIGHT:

MODEL	NET LBS	SHIP LBS
LZS,SE250	7.0	9.0
LZS,SE500	10.0	12.0
LZS,SE750	11.0	14.0
LZS,SE1000	15.5	19.5
LZS,SE1500	19.0	23.0

NOTE:

1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS () ARE IN MM.
2. 4x M4 TAPPED HOLES FOR CUSTOMER MTG. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN .25 (6.3).
3. CUSTOMER MUST PROVIDE CLEARANCE AROUND VENT HOLES TO ALLOW FOR AIR FLOW.

REAR VIEW LZS/SE

