

Harsh Industrial Environments Power Supplies: 24V 3.8 A Single Phase



Item #	Product Description
L3-24V-3.8A-1P	IP 67 Chassis Mount Power Supply, Single Phase, 24 VDC / 3.8 A

Description	
Input	
Nominal Voltage	Any voltage from 100 to 240 Vac Input
-AC Range	85 - 264 Vac Universal Input
-DC Range	100 - 353 Vdc
-Frequency	50/60/400 Hz
Nominal Current 1	1.6A / 0.7A
-Inrush current max.	Typ. <25A
Power Factor Correction	0.95 2
Output	
Nominal Voltage	24 V

Output (Cont.)	
Tolerance	< +/-2% overall (combination line, load, time and temperature related changes)
- Line Regulation	< 0.5%
- Load Regulation	< 0.5%
- Time & Temp Drift	< 1%
Ripple 3	< 50 mVpp
Total Nominal Current	3.8 A
Overvoltage Protection	25-25.5 Vdc, autorecovery
Power Back Immunity	< 35 V
Holdup Time	> 25 ms (Full load, 100 Vac Input @ Tamb=+25o C) to 95% output voltage
General	
EMC -Emissions	EN61000-6-3, EN61204-3, EN55022 Class B, EN61000-3-2, EN61000-3-3
EMC -Immunity	EN61000-6-2, EN61204-3, EN55024, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11
Temperature	Storage: -40 to +85C, Operation: -40 to +60 C full power with linear derating to half power from 60 to 70C (Convection cooling, no forced air required). Operation up to 100% load permissible with sideways or front side up mounting orientation.
Humidity	Up to 100% RH with condensation
Altitude	2,000 meters (6,600 feet)
Vibration	1.0 gravity (g) peak, 10-500 Hz (random wave). Passed random vibration test conditions for 3 axes for 60 minutes duration while energized and operating.
Shock	4 gravity peak, 22 milliseconds half-sine pulse, 3 times on 6 faces while energized and operating
MTBF	>500,000 hours according to Telecordia/Bellcore SR-332 Issue 1, (Vin 120 Vac, Tamb=40C) amb

Warranty	5 Year Limited Warranty
General Protection/ Safety	Protected against continuous short-circuit, continuous overload, continuous open circuit. Protection Class 1 (IEC536), degree of protection IP66/67 versatile (IEC 529). Safe low voltage: SELV (acc. IEC60950)
Status Indicators	DC OK LED
Installation	
Fusing: Input	Internally fused, fuses not replaceable
Fusing: Output	Electronically current limited to meet Class 2 per UL1310
Mounting	Chassis mounted via built in mounting tabs. Removal and replacement of the unit shall be possible from front of panel.
Connections	Input: One 3 pin IP67 molded plug (mini change), internally threaded. Output: Two 4 pin IP67 molded receptacle (mini change), externally threaded.
Case	IP66/67 versatile ingress protection; also meets UL50 Type 4X enclosure
Min Req. Free Space	1 in. (25 mm) all sides (permissible to mount in any orientation)
H x W x D in (mm)	4.73 x 6.52 x 1.80 (120.0 x 166.0 x 46.0)
Weight lbs (kg)	2.6 (1.16)

1. Input current ratings are specified with low input, line conditions, worst case efficiency values and power factor.
2. Power Factor Correction at 50/60 Hz only
3. Ripple/noise is stated as typical AC values when measured with a 20 MHz, bandwidth scope and 50 Ohm termination.