

Light Industrial Environments Power Supplies: 24V 10 A Three Phase



Item #	Product Description
L2-24V-10A-3P	DIN Rail Mount Power Supply, Three Phase, 24 VDC / 10 A 3 Phase

Input Circuit	
Rated input voltage U	3 x 400-500 V AC
Input voltage range	340-575 V AC
	480-820 V DC
Frequency range AC	47-63 Hz
Typical input current	0.65 A
Typical power consumption	270 W
Inrush current limiting	20 A
Internal input fuse	2 A / 600 V AC
Power factor correction (PFC)	< 3.5 mA

Indication of Operational States:		
Output voltage	Green LED	OUTPUT OK: V: output voltage OK
	Red LED	OUTPUT LOW: V: output voltage too low
Output Circuit		
Rated output voltage	24 V DC	
Tolerance of the output voltage	0...+1 %	
Adjustment range of the output voltage	22.5-28.5 V DC	
Rated output power	240 W	
Rated output current I	10 A	
Signaling contact for output voltage OK	solid-state (max. 60 V DC, 0.3 A)	
Minimum fuse rating to achieve short-circuit protection	M 60 V DC, m 0.3 A fast-acting	
Output circuit - No-load, overload and short-circuit behavior:		
Efficiency	typ. 90%	
Duty time	100%	
Dimensions (W x H x D)	89 x 124 x 118.8 mm	
	[3.5 x 4.88 x 4.68 in]	
Weight	1.045 kg (2.30 lb)	
Material of housing	Metal	
Mounting	DIN rail (IEC/EN 60715), snap-on mounting without any tool	
Mounting position	horizontal	
Degree of protection housing / terminals	IP20 / IP20	
Electrical connection - input circuit / output circuit:		
Wire size fine-strand with wire end ferrule	fine-strand with wire end ferrule	0.2-4 mm ² (24-11 AWG)
	fine-strand without wire end ferrule	0.2-6 mm ² (24-10 AWG)
	rigid	0.2-6 mm ² (24-10 AWG)
Stripping length	8 mm (0.31 in)	

Environmental Data		
Ambient temperature range	operation	-40...+70 °C
	rated load	-40...+70 °C
	storage	-40...+85 °C
Damp heat (cyclic)	(IEC/EN 60068-2-30)	95 % without condensation
Shock (half-sine)	(IEC/EN 60068-2-27)	Half sine wave, 15G, 11 ms, 3 axes, 6 Faces, 3 times for each face
Vibration (sinusoidal)	(IEC/EN 60068-2-6)	10-500 Hz, 2G, each along X, Y, Z axes 6 min / cycle
Standards		
Product standard	EN 61204-3	
Low Voltage Directive	2006/95/EN	
EMC directive	2004/108/EN	
RoHS directive	2002/95/EN	
Electrical safety	EN 60950-1, UL 60950-1, UL 508, EN 61558-1, EN 61558-2-17; EN 60204-1	
Electromagnetic Compatibility		
Interference immunity to:	IEC/EN 61000-6-2	
Electrostatic discharge	IEC/EN 61000-4-2	Level 4 (air discharge 15 kV / contact discharge 8 kV)
Radiated, radio-frequency, electromagnetic field IEC/EN	IEC/EN 61000-4-3	Level 3 (10 V/m)
Electrical fast transient/burst	IEC/EN 61000-4-4	Level 4 (4 kV / 5 kHz)
Surge	IEC/EN 61000-4-5	L-L Level 3 (2 kV) / L-PE Level 4 (4 kV)
Conducted disturbances, induced by radio-frequency fields	IEC/EN 61000-4-6	Level 3 (10 Vrms)

Power frequency magnetic fields	IEC/EN 61000-4-6	Level 4 (30 A/m)
Voltage dips, short interruptions and voltage variations	IEC/EN 61000-4-6	dips: >95 % 0.5 ms / >30 % 0.5 ms
		interruptions: >95 % 250 ms
Interference emission		IEC/EN 61000-6-3
High-frequency radiated	IEC/CISPR 22, EN 55022	Class B
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Limits for harmonic current emissions		Class A