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Lovato electric
ENERGY AND AUTOMATION

PSL124024

DIN RAIL SWITCHING POWER SUPPLY, SINGLE-PHASE. 24VDC, 10A/240W



Input characteristics			
Input type			Single-phase
Rated supply voltage AC		VAC	Self-configurable 115…230
Operating range		V	90…132VAC - 180…264VAC / 210…375VDC
Rated frequency		Hz	50/60
Operational frequency			
	min	Hz	47
	max	Hz	63
Current consumption Max		mA	5.4A (90VAC) / 2.2A (180VAC)
PFC			0.7
Insulation voltage Input/Output			
	AC	VAC	3000
	DC	VAC	4242
Internal fuse (250VAC)			T6.3A 250VAC
Output characteristics			
Rated output voltage DC		VDC	24
Voltage trimming (potentiometer) DC			
	min	VDC	22.5
	Max	VDC	28.5
Rated output current		A	10
Rated output power		W	240
Temperature coefficient		%/°C	±0.03
Line adjustment		%	±0.5
Load adjustment		%	±1
Efficency		%	89
Overload protection			120…145%
Short-circuit protection			Fold forward
Ripple & noise		mV	100
Parallel connection		Nr.	3
Indications			
LED indicator for power on			Yes
LED indicator for low voltage			Yes
Power Rdy (Ready - minimum limit)			Yes
Connections			
Terminals type			Screw
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	+71
Storage temperature			

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	min	°C	-40
	max	°C	+85
Derating		%/°C	2.5%/°C above 60°C

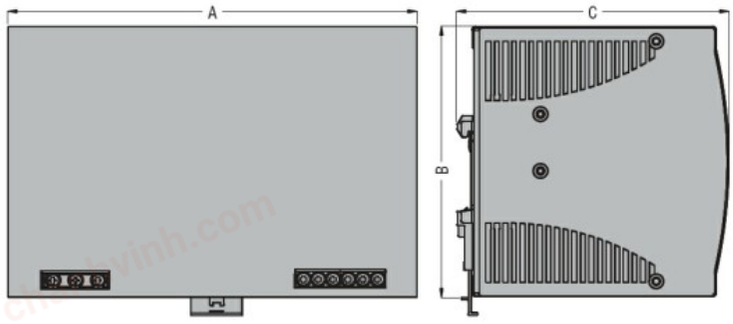
Housing

Material			Metal
IEC degree of protection			IP20
Dimensions (W x H x D)		mm	83.5 x 124.5 x 123.6
Weight		g	1486

Installations

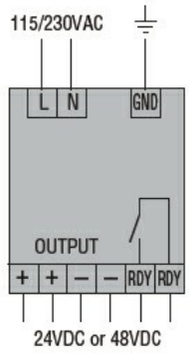
Mounting			On 35mm DIN rail

Dimensions



TYPE	A	B	C
PSL1 120...	64 (2.52")	124.5 (4.90")	123.6 (4.87")
PSL1 240...	83.5 (3.29")	124.5 (4.90")	123.6 (4.87")
PSL1 300...	83.5 (3.29")	124.5 (4.90")	123.6 (4.87")
PSL1 480...	175.5 (6.91")	124.5 (4.90")	123.6 (4.87")
PSL3 120 24	74.3 (2.92")	124 (4.88")	118.8 (4.68")
PSL3 240...	89 (3.50")	124 (4.88")	118.8 (4.68")
PSL3 480...	150 (5.90")	124 (4.88")	118.8 (4.68")
PSL3 960...	275.8 (10.86")	125.9 (4.96")	120.3 (4.74")

Wiring diagrams



Certifications and compliance

Compliance	
	CSA C22.2 n°14
	IEC/EN/BS 61000-6-2
	IEC/EN/BS 61000-6-3
	IEC/EN/BS 62368-1
	UL 508
Certificates	
	cULus
	EAC
	RCM

ETIM classification

ETIM 8.0	EC002540 - DC-power supply

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