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Lovato electric
ENERGY AND AUTOMATION

PSL110024

DIN RAIL SWITCHING POWER SUPPLY, SINGLE-PHASE. 24VDC, 4.2A/100W



Input characteristics				
Input type				Single-phase
Rated supply voltage AC			VAC	Multivoltage 100...240
Operating range				
	AC			
		min	VAC	90
		Max	VAC	264
	DC			
		min	VDC	120
		Max	VDC	375
Rated frequency			Hz	50/60
Operational frequency				
		min	Hz	47
		max	Hz	63
Current consumption Max			mA	2400
Insulation voltage Input/Output				
		AC	VAC	3000
		DC	VAC	4242
Internal fuse (250VAC)				T3.15A 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	4.2
Rated output power			W	100
Temperature coefficient			%/°C	±0.03
Line adjustment			%	±1
Load adjustment			%	±1
Efficency			%	86
Overload protection				110…140%
Short-circuit protection				Fold forward
Ripple & noise			mV	50
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	-35

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	max	°C	+71
Storage temperature			
	min	°C	-40
	max	°C	+85
Derating		%/°C	2.5%/°C above 60°C

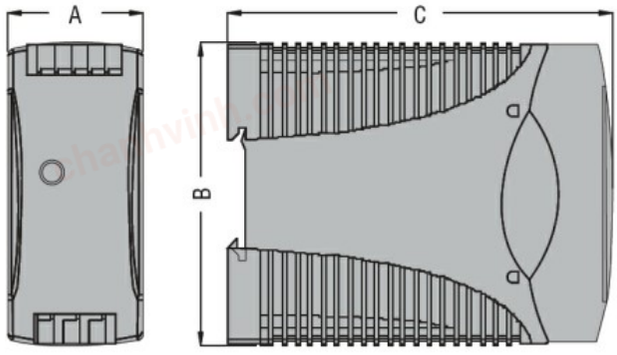
Housing

Material		Plastic
IEC degree of protection		IP20
Dimensions (W x H x D)	mm	54 x 90 x 115
Weight	g	508

Installations

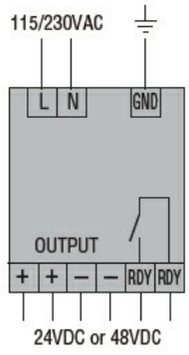
Mounting	On 35mm DIN rail

Dimensions



TYPE	A	B	C
PSL1 005 24	22.5 (0.88")	90 (3.54")	115 (4.53")
PSL1 010 24	22.5 (0.88")	90 (3.54")	115 (4.53")
PSL1 018 24	22.5 (0.88")	90 (3.54")	115 (4.53")
PSL1 030...	40.5 (1.59")	90 (3.54")	115 (4.53")
PSL1 060...	40.5 (1.59")	90 (3.54")	115 (4.53")
PSL1 100...	54 (2.12")	90 (3.54")	115 (4.53")
PSL2 100...	54 (2.12")	90 (3.54")	115 (4.53")
PSLR 20 24	54 (2.12")	90 (3.54")	115 (4.53")

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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