



Product designation

Product type designation

Switching power
supplies
PSL1

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
Efficiency		%	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
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Ambient conditions

Temperature	Operating temperature
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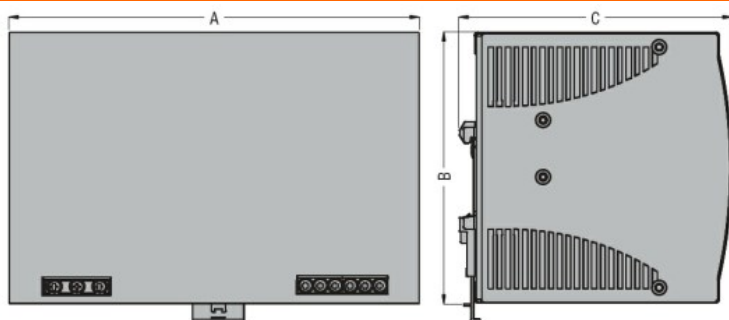
Storage temperature	min	°C	-40
	max	°C	+71

Derating	min	°C	-40
	max	°C	+85
		%/°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

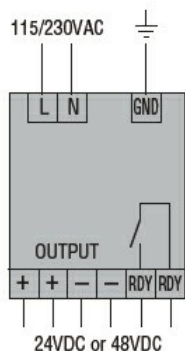
Installations			
Mounting			On 35mm DIN rail

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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