



Product designation			Switching power supplies
Product type designation			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
Ambient conditions			
Temperature			Operating temperature

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

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

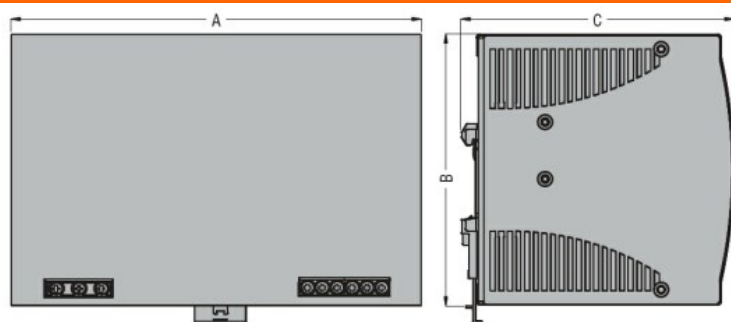
Housing

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

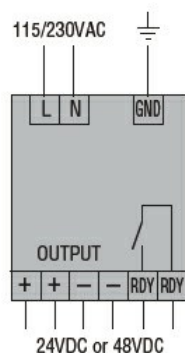
Mounting	On 35mm DIN rail
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Dimensions



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