



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 6A (90VAC) / 3A (180VAC)
PFC			0.7
Insulation voltage Input/Output			AC VAC 3000
			DC VAC 4242
Internal fuse (250VAC)			T8A 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 12.5
Rated output power			W 300
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	-30
	max	°C	+71

Derating	min	°C	-40
	max	°C	+85
		%/°C	2.5%/°C above 56°C

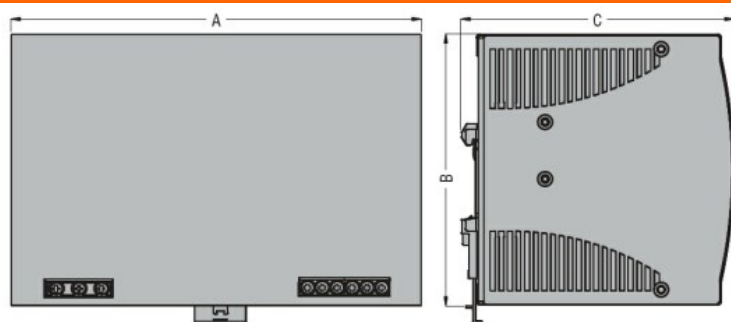
Housing

Material	Metal
IEC degree of protection	IP20
Dimensions (W x H x D)	mm 83.5 x 124.5 x 123.6
Weight	g 1496

Installations

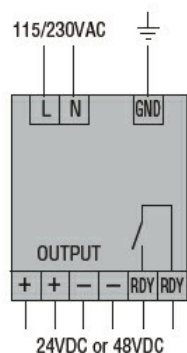
Mounting	On 35mm DIN rail
----------	------------------

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