



Product designation

Switching power
supplies
PSL1

Product type designation

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
max

Hz
Hz

47
63

Current consumption Max

mA

5.4A (90VAC) /
2.2A (180VAC)

PFC

0.7

Insulation voltage Input/Output

AC
DC

VAC
VAC

3000
4242

Internal fuse (250VAC)

T6.3A 250VAC

Output characteristics

Rated output voltage DC

VDC

24

Voltage trimming (potentiometer) DC

min
Max

VDC
VDC

22.5
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

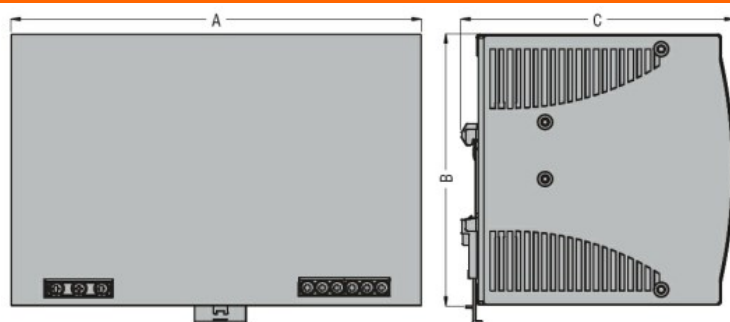
Housing

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

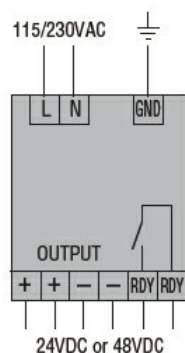
Mounting	On 35mm DIN rail
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Dimensions



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