



Product designation			Switching power supplies
Product type designation			PSL1
Input characteristics			
Input type			Single phase
Rated supply voltage AC		VAC	Self-configurable 115230
Operating range		V	90132VAC - 180264VAC / 210375VDC
Rated frequency		Hz	50/60
Operational frequency			
	min	Hz	47
	max	Hz	63
Current consumption Max		mA	2.8A (90VAC) / 1.4A (180VAC)
PFC			0.7
Insulation voltage Input/Output			
	AC	VAC	3000
	DC	VAC	4242
Internal fuse (250VAC)			T3 15A 250VAC
Output characteristics			
Output characteristics Rated output voltage DC		VDC	24
		VDC	24
Rated output voltage DC	min	VDC VDC	24 22.5
Rated output voltage DC	min Max		22.5 28.5
Rated output voltage DC		VDC VDC A	22.5
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power		VDC VDC A W	22.5 28.5
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current		VDC VDC A	22.5 28.5 5
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power		VDC VDC A W	22.5 28.5 5 120
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient		VDC VDC A W %/°C	22.5 28.5 5 120 ±0.03
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment		VDC VDC A W %/°C %	22.5 28.5 5 120 ±0.03 ±0.5
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment		VDC VDC A W %/°C %	22.5 28.5 5 120 ±0.03 ±0.5 ±1
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency		VDC VDC A W %/°C %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection		VDC VDC A W %/°C %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145%
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection		VDC VDC A W %/°C % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection Ripple & noise		VDC VDC A W %/°C % % % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward 50
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection Ripple & noise Parallel connection Indications LED indicator for power on		VDC VDC A W %/°C % % % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward 50
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection Ripple & noise Parallel connection Indications LED indicator for power on LED indicator for low voltage		VDC VDC A W %/°C % % % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward 50 3
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection Ripple & noise Parallel connection Indications LED indicator for power on LED indicator for low voltage Power Rdy (Ready - minimum limit)		VDC VDC A W %/°C % % % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward 50 3 Yes
Rated output voltage DC Voltage trimming (potentiometer) DC Rated output current Rated output power Temperature coefficient Line adjustment Load adjustment Efficency Overload protection Short-circuit protection Ripple & noise Parallel connection Indications LED indicator for power on LED indicator for low voltage		VDC VDC A W %/°C % % % %	22.5 28.5 5 120 ±0.03 ±0.5 ±1 86 110145% Fold forward 50 3 Yes Yes

Ambient conditions

Temperature

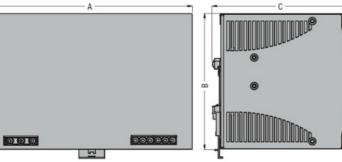
Operating temperature

PSL112024



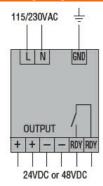
PSL112024 DIN RAIL SWITCHING POWER SUPPLY, SINGLE PHASE. 24VDC, 5A / 120W

	min	°C	-35
	max	°C	+71
Storage temperature			
	min	°C	-40
	max	°C	+85
Derating		%/°C	2.5%/°C above 60°C
Housing			
Material			Metal
IEC degree of protection			IP20
Dimensions (W x H x D)		mm	64 x 124.5 x 123.6
Weight		g	1018
Installations			
Mounting			On 35mm DIN rail
Dimensions			



TYPE	A	В	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 60950-1
	IEC/EN 61000-6-2
	IEC/EN 61000-6-3
	UL 508
Certificates	
	cULus
	EAC
	RCM

PSL112024