



Product type designation PSL 1 Input characteristics Input type Rated supply voltage AC VAC Self-configurable I15230 Operating range AC Min VAC 90 Max VAC 90 Max VAC 264 DC Max VAC 264 DC VAC 90 Max VDC 375 Rated frequency N K  Rated requency N K  Rated supply output AC VAC S  Rated requency N K  Rated requency N K  Rated supply output AC VAC S  Rated requency N K  Rated requency	Product designation			Switching power
Input characteristics Input type Single-phase Rated supply voltage AC Self-configurable 115230 Operating range AC Min VAC 90 Max VAC 90 Max VAC 264 DC Min VDC 120 Max VDC 375 Rated frequency Hz 50/60 Operational frequency Min Hz 47 max Hz 63 Current consumption Max PFC Not AC Self-configurable AC Voltage Input/Output AC VAC 90 FC Insulation voltage Input/Output AC VAC 90 C Min VDC 4242 Internal fuse (250VAC) T10A Output characteristics T10A Output characteristics Fated output cortent A 10 Rated output current A 10 Rated output cu	-			
Input type       Single-phase         Rated supply voltage AC       VAC       Self-configurable         Operating range       AC       min       VAC       90         Max       VAC       264       DC       Max       VAC       264         DC       min       VAC       264       DC       DC <td></td> <td></td> <td></td> <td>PSL1</td>				PSL1
Rated supply voltage AC     VAC     Self-configurable 115230       Operating range     AC     min     VAC     90       Max     VAC     264     DC       DC     min     VDC     120       Max     VDC     375       Rated frequency     Hz     50/60       Operational frequency     Hz     63       Current consumption Max     mA     3000       PFC     0.97     0.97       Insulation voltage Input/Output     AC     VAC       Ated output voltage DC     VDC     48       Voltage trimming (potentiometer) DC     min     VDC       Max     VDC     56       Rated output current     A     10       Rated output voltage DC     VDC     48       Voltage trimming (potentiometer) DC     min     VDC       Max     VDC     56       Rated output voltage DC     VDC     48       Voltage trimming (potentiometer)     %     40.5       Load adjustment     %     40.5       Load adjustment     %     90       Overload protection     T10140%       Short-circuit protection     Fold forward       Ripple & noise     mV     100       Parallel connection     Nr. </td <td></td> <td></td> <td></td> <td>Single phase</td>				Single phase
Act         vAc         115230           Operating range         AC         Max         VAC         90           Max         VAC         264         20           DC         min         VDC         120           Max         VDC         375         375           Rated frequency         Hz         50/60         0           Operational frequency         min         Hz         50/60           Operational frequency         min         Hz         50/60           Operational frequency         min         Hz         50/60           Operational frequency         max         Hz         63           Current consumption Max         mA         3000         0           PFC         0.97         0.97         0.97           Insulation voltage Input/Output         AC         VAC         3000           DC         VAC         4242         10A           Output characteristics         min         VDC         48           Voltage trimming (potentiometer) DC         min         VDC         56           Rated output current         A         10         116         116           Efficency         %				
AC         min         VAC         90           Max         VAC         264           DC         min         VDC         120           Max         VDC         375           Rated frequency         Hz         50/60           Operational frequency         min         Hz         50/60           Operational frequency         min         Hz         63           Current consumption Max         mA         3000         PFC           Insulation voltage Input/Output         AC         VAC         3000           PFC         0.97         0.97         10A           Output characteristics         T10A         0Utput characteristics         10           Rated output voltage DC         VDC         48         VDC         56           Rated output current         A         10         10         10           Rated output power         W         480         10         10         10           Ine adjustment         %         ±0.5         56         56         56         56         56         56         56         56         56         56         56         56         56         56         56         56			VAC	
min         VAC         90           DC         min         VAC         264           DC         min         VDC         120           Max         VDC         375           Rated frequency         Hz         50/60           Operational frequency         min         Hz         47           Current consumption Max         mA         3000         PFC         0.97           Insulation voltage Input/Output         AC         VAC         3000           DC         VAC         4242         10           Internal fuse (250VAC)         T10A         0urgut character/sitics           Rated output voltage DC         VDC         48           Voltage trimming (potentiometer) DC         Min         VDC         56           Rated output voltage DC         VDC         47         10           Rated output power         W         480         10           Temperature coefficient         %/'C         0.03         11           Line adjustment         %         ±0.5         10         10           Lead output power         Fold forward         Rot officient         40.5         10           Lead adjustment         %         ±0.5<				
Max         VAC         264           DC         min         VDC         120           Max         VDC         375           Rated frequency         Hz         50/60           Operational frequency         min         Hz         47           max         Hz         63         14           Current consumption Max         mA         3000         14           PFC         0.97         0.97         1500           Insulation voltage Input/Output         AC         VAC         4242           Internal fuse (250VAC)         T10A         10         10           Output characterisitis         min         VDC         48           Voltage trimming (potentiometer) DC         min         VDC         48           Voltage trimming (potentiometer) DC         min         VDC         47           Rated output current         A         10         10           Rated output power         W         480         10           Temperature coefficient         %/"C         0.03         10           Line adjustment         %         ±0.5         10           Load adjustment         %         10         10	AC			
DC         min         VDC         120           Max         VDC         375           Rated frequency         Hz         50/60           Operational frequency         min         Hz         47           max         Hz         63         120           Current consumption Max         mA         3000         97           Insulation voltage Input/Output         AC         VAC         3000           PFC         0.97         0.97         110A           Output characteristics         Rated output/Output         AC         VAC         3000           DC         VAC         4242         1         10A         00           Output characteristics         min         VDC         48         10         10A           Output characteristics         min         VDC         47         10A				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Max	VAC	264
Max         VDC         375           Rated frequency         Hz         50/60           Operational frequency         min         Hz         47           max         Hz         63           Current consumption Max         mA         3000           PFC         0.97           Insulation voltage Input/Output         AC         VAC         3000           DEC         VAC         3000         DC         VAC         4242           Insulation voltage Input/Output         AC         VAC         3000         DC         VAC         4242           Internal fuse (250VAC)         T10A         Output characteristics         T10A         Output characteristics           Rated output voltage DC         VDC         48         VOC 56         Rated output power         W         480           Temperature coefficient         %         ±0.5         Load adjustment         %         ±0.5           Load adjustment         %         ±11         Efficiency         %         90         Overload protection         Fold forward           Ripel & noise         mV         100         Parallel connection         Nr.         3           Indidication for power on         Yes	DC			
Rated frequency         Hz         50/60           Operational frequency         min         Hz         47           max         HZ         63           Current consumption Max         mA         3000           PFC         0.97           Insulation voltage Input/Output         AC         VAC         3000           DC         VAC         3000         DC         VAC         4242           Internal fuse (250VAC)         T10A         Output characteristics         T10A           Qutput characteristics         min         VDC         48           Voltage trimming (potentiometer) DC         min         VDC         47           Max         VDC         48         VOC         56           Rated output current         A         10         Rated output power         W         480           Temperature coefficient         %/*C         0.03         1         1         1           Lefficiency         %         90         0         0         0         0           Overload protection         110140%         Fold forward         1         1         1         1           Efficiency         %         90         0         <				
Operational frequency       min       Hz       47         max       Hz       63         Current consumption Max       mA       3000         PFC       0.97         Insulation voltage Input/Output       AC       VAC       3000         DC       VAC       4242         Internal fuse (250VAC)       T10A       0utput characteristics         Rated output voltage DC       VDC       48         Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56       6         Rated output current       A       10       6         Rated output power       W       480       480         Temperature coefficient       %/°C       0.03       1         Line adjustment       %       ±0.5       1         Load adjustment       %       90       0         Overload protection       T10140%       100         Parallel connection       Nr.       3         Indicator for power on       Yes       Yes         LED indicator for low voltage       Yes       Yes         Dower Rdy (Ready - minimum limit)       Yes       Yes		Max		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Hz	50/60
max         Hz         63           Current consumption Max         mA         3000           PFC         0.97           Insulation voltage Input/Output         AC         VAC         3000           DC         VAC         4242           Internal fuse (250VAC)         T10A         Cutput characteristics           Rated output voltage DC         VDC         48           Voltage trimming (potentiometer) DC         min         VDC         47           Max         VDC         56         A         10           Rated output power         W         480         480           Temperature coefficient         %/ ±0.5         50         50           Line adjustment         %         ±0.5         50           Load adjustment         %         ±0.5         50           Short-circuit protection         T10140%         50           Short-circuit protection         Fold forward         Riple & noise         mV         100           Parallel connection         Nr.         3         100         2         2           Internal fuse (250 voltage         Yes         100         2         2	Operational frequency			
Current consumption Max       mA       3000         PFC       0.97         Insulation voltage Input/Output       AC       VAC       3000         DC       VAC       4242         Internal fuse (250VAC)       T10A         Output characteristics       T10A         Rated output voltage DC       VDC       48         Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56         Rated output current       A       10         Rated output opwer       W       480         Temperature coefficient       %/°C       0.03         Line adjustment       %/       ±0.5         Load adjustment       %/       ±1         Efficency       %       90         Overload protection       T10140%         Short-circuit protection       Fold forward         Ripple & noise       mV       100         Parallel connection       Nr. 3         Indicators       Yes         LED indicator for low voltage       Yes         LED indicator for low voltage       Yes         Power Rdy (Ready - minimul limit)       Yes		min	Hz	47
PFC       0.97         Insulation voltage Input/Output       AC       VAC       3000         DC       VAC       4242         Internal fuse (250VAC)       T10A         Output characteristics       T10A         Rated output voltage DC       VDC       48         Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56       A       10         Rated output power       W       480       480         Temperature coefficient       %/*C       0.03       1         Line adjustment       %       ±0.5       1         Load adjustment       %       ±1       1         Efficency       %       90       0         Overload protection       Told forward       10140%         Short-circuit protection       Fold forward       Ripple & noise       mV       100         Parallel connection       Nr.       3       1       1         LED indicator for power on       Yes       Yes       1         LED indicator for low voltage       Yes       Yes       1         Power Rdy (Ready - minimum limit)       Yes (relay output - 17.6VDC)       1 <td></td> <td>max</td> <td>Hz</td> <td>63</td>		max	Hz	63
Insulation voltage Input/Output       AC       VAC       3000         DC       VAC       4242         Internal fuse (250VAC)       T10A         Output characteristics       T10A         Rated output voltage DC       VDC       48         Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56         Rated output current       A       10         Rated output power       W       480         Temperature coefficient       %/°C       0.03         Line adjustment       %       ±0.5         Load adjustment       %       ±1         Efficency       %       90         Overload protection       110140%         Short-circuit protection       Fold forward         Ripple & noise       mV       100         Parallel connection       Nr.       3         Indications       Yes       IED indicator for power on       Yes         LED indicator for low voltage       Yes       Yes         Power Rdy (Ready - minimum limit)       Yes       Yes	Current consumption Max		mA	3000
ACVAC3000 DCVAC4242Internal fuse (250VAC)T10AOutput characteristicsRated output voltage DCVDC48Voltage trimming (potentiometer) DCminVDC47MaxVDC56Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionNr.3Indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)	PFC			0.97
DCVAC4242Internal fuse (250VAC)T10AOutput characteristicsRated output voltage DCRated output voltage DCVDCVoltage trimming (potentiometer) DCminVDCMaxVDCSector of the sector o	Insulation voltage Input/Output			
Internal fuse (250VAC)       T10A         Output characteristics       NDC       48         Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56         Rated output current       A       10         Rated output power       W       480         Temperature coefficient       %/°C       0.03         Line adjustment       %       ±1.5         Load adjustment       %       ±1         Efficency       %       90         Overload protection       110140%         Short-circuit protection       Fold forward         Ripple & noise       mV       100         Parallel connection       Nr.       3         Indicators       VES       VES         LED indicator for low voltage       Yes         Power Rdy (Ready - minimum limit)       Yes (relay output - 17.6VDC)		AC	VAC	3000
Output characteristicsRated output voltage DCVDC48Voltage trimming (potentiometer) DCmin MaxVDC47 VDCMaxVDC56Rated output currentA10Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3Indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)		DC	VAC	4242
Output characteristicsRated output voltage DCVDC48Voltage trimming (potentiometer) DCmin MaxVDC47 VDCMaxVDC56Rated output currentA10Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionmV100Parallel connectionNr.3Indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)	Internal fuse (250VAC)			T10A
Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56         Rated output current       A       10         Rated output power       W       480         Temperature coefficient       %/°C       0.03         Line adjustment       %       ±0.5         Load adjustment       %       ±1         Efficency       %       90         Overload protection       110140%         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 (relay output - 17.6VDC)				
Voltage trimming (potentiometer) DC       min       VDC       47         Max       VDC       56         Rated output current       A       10         Rated output power       W       480         Temperature coefficient       %/°C       0.03         Line adjustment       %       ±0.5         Load adjustment       %       ±1         Efficency       %       90         Overload protection       110140%         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 (relay output - 17.6VDC)	Rated output voltage DC		VDC	48
min MaxVDC47 VDCMaxVDC56Rated output currentA10Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
MaxVDC56Rated output currentA10Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)		min	VDC	47
Rated output currentA10Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Rated output powerW480Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.JIndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)	Rated output current			
Temperature coefficient%/°C0.03Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Line adjustment%±0.5Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Load adjustment%±1Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsLED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)	· · · · · · · · · · · · · · · · · · ·			
Efficency%90Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsIndicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Overload protection110140%Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsIndicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Short-circuit protectionFold forwardRipple & noisemV100Parallel connectionNr.3IndicationsIndicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)	· · · · · · · · · · · · · · · · · · ·		70	
Ripple & noisemV100Parallel connectionNr.3IndicationsIndicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)				
Parallel connection       Nr.       3         Indications       Indicator for power on       Yes         LED indicator for low voltage       Yes         Power Rdy (Ready - minimum limit)       Yes (relay output - 17.6VDC)			m\/	
Indications         LED indicator for power on       Yes         LED indicator for low voltage       Yes         Power Rdy (Ready - minimum limit)       Yes (relay output - 17.6VDC)				
LED indicator for power onYesLED indicator for low voltageYesPower Rdy (Ready - minimum limit)Yes (relay output - 17.6VDC)			INF.	3
LED indicator for low voltage     Yes       Power Rdy (Ready - minimum limit)     Yes (relay output - 17.6VDC)				Vec
Power Rdy (Ready - minimum limit) Yes (relay output - 17.6VDC)				
- 17.6VDC)	LED Indicator for low voltage			
	Power Rdy (Ready - minimum limit)			

Connections

PSL148048



ENERGY AND AUTOMATION					
Terminals type				Scre	w
Ambient conditions					
Temperature					
	Operating temperature				
			min '	°C -40	
			max '	°C +71	
	Storage temperature				
	g		min '	°C -40	
				°C +85	
Derating				0 100 /°C 2.5	
			λ.	07 C 2.5	
Housing				N.4. (	
Material				Meta	
IEC degree of protection	วท			IP20	
Dimensions (W x H x D	))		n	nm	5 x 124.5 x
Weight				g 2348	
Installations				g 2040	,
			On 35mm DIN		
Mounting				rail	
Dimensions					
A		TYPE	A	В	C
			64 (2.52")	124.5 (4.90")	123.6 (4.87")
		PSL1 120 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")
	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")
	e	PSL3 240	89 (3.50")	124 (4.88")	118.8 (4.68")
		PSL3 480	150 (5.90")	124 (4.88")	118.8 (4.68")
DIDID.		PSL3 960	275.8 (10.86")	125.9 (4.96")	120.3 (4.74")
Wiring diagrams					
115/230VAC 🛓					
LNGND					
OUTPUT '					
+ + + RDY RDY					
24VDC or 48VDC					
	- Para - A				

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		

PSL148048

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



**PSL148048** DIN RAIL SWITCHING POWER SUPPLY, SINGLE-PHASE. 48VDC, 10A/480W

ETIM 8.0

EC002540 - DCpower supply