



| 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

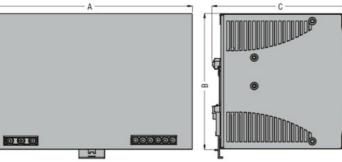
Operating temperature

PSL112024



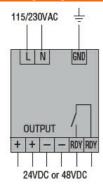
PSL112024 DIN RAIL SWITCHING POWER SUPPLY, SINGLE PHASE. 24VDC, 5A / 120W

| | 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