Single-phase, primary switched mode power supply, Economy

# PVSE 230/24-10



Picture shows PVSE 230/24-10

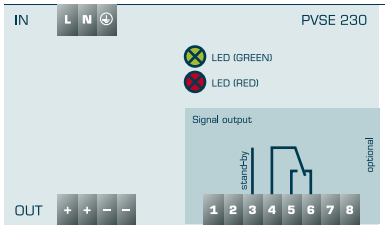
## Advantages

- Stabilized and adjustable output voltage
- Up to 200 % Real Power Boost for 4 seconds
- Top Boost to trip conventional circuit breakers
- DC OK indicator
- Stand-by-input
- Parallel connection option
- Service-friendly spring-loaded connector system
- Optional with active inrush current limiter

## Applications

Primary switched mode power supply with massive power reserves focussing on the key task of power supply.

## Sample application




## Standards

Primary switched mode power supply
to UL 60950, UL 508

Safety:
EN 61558-2-16, EN 60950-1

EMC:
EN 61204-3

## Approvals

UL/CSA 60950 recognised, UL 508 listed



# Single-phase, primary switched mode power supply, Economy
# PVSE 230/24-10

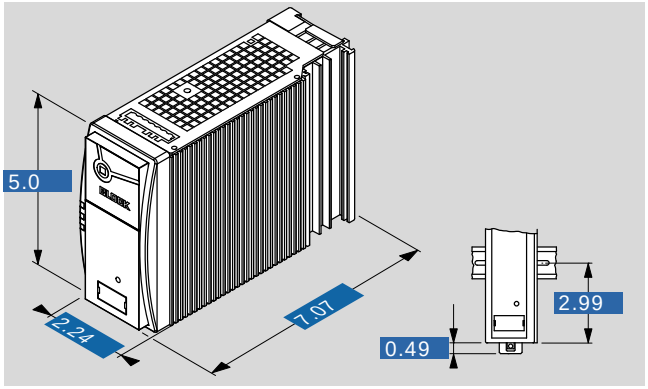
## Electrical data

| Type | PVSE 230/24-10 |
|---|---|
| **Input** | |
| Input rated voltage | 110 - 240 Vac |
| Input rated current (rated load) | 2.5 / 1.2 Aac (110 / 230 Vac) |
| Input voltage range | 85 - 264 Vac (120 - 373 Vdc) |
| Rated frequency range | 44 Hz - 66 Hz / 0 Hz |
| Starting current limiter | <8 A, active |
| Input fuse internal | 6,3 A (slow-blow) |
| Recommended back-up fuse (circuit breaker) | 10 A, 16 A, characteristics B, C |
| Mains buffering (rated load) | 24 / 24 ms (110 / 230 Vac) |
| Transient surge voltage protection | Varistor |
| **Output** | |
| Output rated voltage | 24 Vdc |
| Output voltage range | 22 - 29.5 Vdc |
| Resistance to reverse feed max. | 35 Vdc |
| Output rated current | 10 A |
| Parallel connection | Yes, for increased power with redundancy module |
| Power Boost | 20 A / 4 s (15 A / 8 s) |
| Overload behaviour | Constant current |
| max. Power loss idling/nominal load | 3.5 / 19.7 W |
| Serial operation | Yes |
| Efficiency | typ. 91.8 % |
| Ripple factor | typ. 70 mVss |
| Top Boost | 60 A / 25 ms |
| **Signaling** | |
| Stand-by-input | Yes |
| Power Good (DC OK) | LED green, LED red |
| Potential-free signal contact | Yes |
| **Approvals** | |
| Approvals | cURus, cULus |
| **Environment** | |
| Storage temperature | -13 °F to +185 °F |
| Derating | -3 %/K > +122 °F,<br>-1.5 %/Vac < 110 Vac |
| Ambient temperature | -10 °C to +70 °C |
| **Safety and protection** | |
| Safety class | I, with PE connection |
| Protection index | IP 20 |
| **Accessory** | |
| Connector for signalling | PV-CON (optional) |
| Side DIN rail mounting | PV-TS35M (optional) |
| Direct screw fastening plate for lateral mounting | PV-WB2 (optional) |
| **Order numbers** | |
| **Order Number** | **PVSE 230/24-10** |

## Mechanical data

| Type | PVSE 230/24-10 |
|---|---|
| **Terminal and mounting** | |
| Terminals input, (spring clamp terminal, pluggable) | max. 2.5 mm² |
| Terminals output, (spring clamp terminal, pluggable) | max. 2.5 mm² |
| Terminals signalling, (spring clamp terminal, pluggable) | max. 0.5 mm² |
| Mounting position | vertical |
| Fixing method | DIN Rail system TS35 |
| **Measures and weights** | |
| Weight | 2.87 lbs |

Dimensions in inch




Subject to change.