

# Three phase, primary switched mode power supply, Economy PVSE 400/48-20



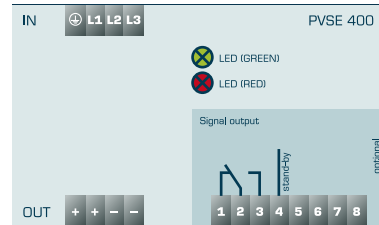
## Advantages

Stabilised and adjustable output voltage
Up to 200 % real power boost for 4 seconds
Top boost to trip miniature circuit breakers
DC OK signalling
Parallel connection option
Service-friendly spring-loaded connector system
Can be supplied with active inrush current limiting option
Can be supplied with isolated DC OK signalling function
Panel installation on mounting rails

## Applications

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

## Simplified diagram



## Approvals



UL/CSA 60950 recognised, UL508 listed



## Three phase, primary switched mode power supply, Economy PVSE 400/48-20

Type	PVSE 400/48-20
<b>Electrical data</b>	
<b>Input</b>	
Input rated voltage	3 x 400 - 500 Vac
Input voltage range	340 - 550 Vac (480 - 780 Vdc)
Input rated current (rated load)	2 A (3 x 340 Vac)
Rated frequency range	44 Hz - 66 Hz / 0 Hz
Starting current limiter	<30 A, NTC
Input fuse internal	3 x 6.3 A (slow-blow)
Recommended back-up fuse (circuit breaker)	10 A, 16 A, characteristics B, C
Harmonic correction	passive
Mains buffering	15.6 / 42.9 ms (400 / 500 Vac)
Transient surge voltage protection	Varistor
<b>Output</b>	
Output rated voltage	48 Vdc ±1 %
Output voltage range	37 - 51 Vdc
Resistance to reverse feed max.	63 Vdc
Output rated current	20.00 A
Parallel connection	Yes
Power Boost	30 A / 4 s (25 A / 8 s)
Overload behaviour	Constant current
max. Power loss idling/nominal load	5.2 / 59.2 W
Serial operation	Yes
Efficiency	typ. 94.4 %
Ripple factor	typ. 70 mVss
Top Boost	80 A / 50 ms
<b>Signaling</b>	
Power Good (DC OK)	LED green, LED red
Potential free signal contact	Yes
Stand-by-input	Yes
<b>Standards</b>	
Classification	Primary switched mode power supply
<b>Approvals</b>	
Approvals	cURus, cULus
<b>Environment</b>	
Ambient temperature	-25° C to +70° C
Storage temperature	-25° C to +85° C
Derating	-3 %/K > +50° C
<b>Safety and protection</b>	
Protection index	IP 20
Safety class	I, with PE connection
<b>Accessory</b>	
Connector for signalling	PV-CON (optional)
Side DIN Rail mounting	PV-TS35M (optional)
Direct screw fastening plate for lateral mounting	PV-WB2 (optional)
<b>Order numbers</b>	
<b>Order Number</b>	<b>PVSE 400/48-20</b>

Type	PVSE 400/48-20
<b>Mechanical data</b>	
<b>Terminal and mounting</b>	
Connections input, (spring clamp terminal, pluggable)	max. 2.5 mm <sup>2</sup>
Connections output, (spring clamp terminal, pluggable)	max. 10 mm <sup>2</sup>
Connections signalling, (spring clamp terminal, pluggable)	max. 0.5 mm <sup>2</sup>
Mounting position	vertical
Fixing method	DIN Rail system TH 35
<b>Measures and weights</b>	
Weight	2.50 kg

