

# VPS2400 Series

## 2400W 3PH DIN Rail Switching Power Supply

### Main features

- High Efficiency and compact size
- >150% overload capability
- Active input surge suppressor for improved reliability
- Microprocessor control allows for remote programming and monitoring
- Battery charger function included
- Thermal regulated 60mm fans for optimal cooling in every operating condition

### TECHNICAL DATA

Model type	VPS2400-24	VPS2400-48	VPS2400-72	VPS2400-170
<b>OUTPUT DATA</b>				
Rated voltage	24Vdc	48Vdc	72Vdc	170Vdc
Adj. output voltage range	11.9...29.0Vdc	23.0...56.0Vdc	50.0...87.0Vdc	85.0...175.0Vdc
Continuous current	100A	50A	33A	14A
Overload limit	150A / 5s	75A / 5s	50A / 5s	21A / 5s
Short circuit peak current	150A	75A	50A	21A
Load regulation	< 1%			
Ripple	< 200mVpp			
Hold up time	> 10ms			
Status Signals	1) "DC OK / CHARGE": by LED and dry contact (1A/30V) 2) "ALARM": by LED			
User interface	1) LCD with 4 key buttons 2) 0...10V voltage output for output current 0...100% In 3) 4...20mA current output for output current 0...100% In 4) Auxiliary 12V/ 100 mA isolated power supply 5) Load voltage sense 6) Optoisolated remote shut down input 7) Optional: USB Communication interface via communication module 8) Optional: remote temperature sense for battery charging			
Output protections	Overload (with user settable threshold), Short circuit, over temperature, overvoltage			
Output overvoltage protection	Active, microprocessor controlled			
Parallel connection	Redundancy: integrated ORing circuit; Power: up to 4 units parallelable via load share bus			
<b>INPUT DATA</b>				
Input rated voltage / frequency	AC: 3-Ph, 400...500Vac / 47...63Hz (range 340...550Vac) DC: 520...725Vdc			
Input rated current (U <sub>in</sub> 400/500Vac)	4.5A 3.5A			
Inrush peak current	< 10A active Inrush current limiter			
Power factor	> 0.92			
Internal protection fuse	None, external fuse must be provided			
External protection on AC line	Fuse 3x AT 10A or 3x MCB 10A C curve			
<b>GENERAL DATA</b>				
Efficiency	> 92%	> 92%	> 93%	> 92%
Dissipated power	< 200W	< 200W	< 180W	< 200W
Operating temperature	- 20°C...+ 60°C / overtemperature protection			
Derating	- 60W/°C over 50°C			
Overvoltage category	II / 2 (IEC 664-1)			
Pollution degree	II / 2 (IEC 664-1)			
Input / output isolation	2850 Vdc (type test)			
Input / ground isolation	2250 Vdc (type test)			
Output / ground isolation	750 Vdc (type test)			
Standards & Approvals	UL508 (certified), EN60950 (reference), CE marking			
EMC Standards	EN61000-6-4, EN61000-6-2			
Protection degree	IP20 acc. to EN60529			
Connection terminals Input	1.5...6 mm <sup>2</sup> , screw type (16...10 AWG)			
Connection terminals Output	35 mm <sup>2</sup> , screw type (2 AWG)			
Connection terminals Auxiliary	1.5 mm <sup>2</sup> , screw type pluggable 16 pin (24...12 AWG)			

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## 2400W 3PH DIN Rail Switching Power Supply

Case material	Aluminum
Approx. weight	2.8 kg
Size (W x H x D)	233.0 x 160.0 x 101.0mm
Mounting Rail	IEC 60715/H15/TH35-7.5(-15)
Rail mounting information	Vertical, allow 80mm spacing between adjacent items

**Note:** Technical parameters are typical and may change without prior notice.

### Dimensions

