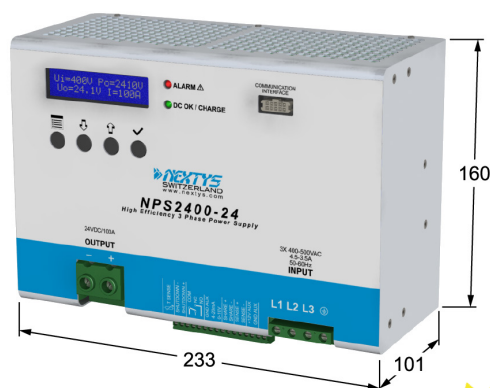


## NPS2400 – 2400W 3 Phase DIN Rail Switching Power Supply

- High efficiency and compact size
- > 150% overload capability
- Up to 3600W Peak!!
- Active input surge suppression circuit for improved reliability
- Microprocessor control allows for remote programming and monitORing
- Battery charger function included
- Thermal regulated 60mm fan for optimal cooling in every operating condition



IND.CONT.EQ  
4WX9



For reference only

**WORLD FIRST!**

### TECHNICAL DATA

TECHNICAL DATA		NPS2400-24	NPS2400-48	NPS2400-72	NPS2400-170
OUTPUT DATA					
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				
Protections	Overload (with user settable threshold) - Short circuit - over temperature - overvoltage				
Output overvoltage protection	Active, microprocessor controlled				
Status Signals	DC OK – green LED / ALARM – red LED / Dry contact (1A / 30Vdc)				
User interface	LCD with 4 key buttons				
	0...10V voltage output for output current 0...100% In				
	4...20mA current output for output current 0...100% In				
	Auxiliary 12V/100mA isolated power supply				
	Load voltage sense				
	Optoisolated remote shut down input				
	Optional: USB Communication interface via communication module				
Parallel connection	Optional: remote temperature sense for battery charging				
	Redundancy: integrated ORing circuit				
	Power: up to 4 units parallelable via load share bus				
INPUT DATA					
Input rated voltage frequency	AC: 3 phase, 400...500Vac / 47...63Hz (range 340...550Vac) DC: 520...725Vdc				
Input rated current					
(Vin = 400Vac)	4.5A				
(Vin = 500Vac)	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 10AT or 3x MCB 10A C curve				
GENERAL DATA					
Efficiency	> 92%	> 92%	> 93%	> 92%	
Dissipated power	< 200W	< 200W	< 180W	< 200W	
Operating temperature	- 20°C...+ 60°C (over temperature protection)				
Derating	- 60W/°C over 50°C				
Overvoltage category	II				
Pollution degree	2 (IEC 664-1)				
Input / output isolation	4.2kVdc				
Input / ground isolation	2.2kVdc				
Output / ground isolation	0.75kVdc				
Standards & Approvals	UL508 (certified), EN60950 (reference), CE marking				
EMC Standards	EN61000-6-2, EN61000-6-4				
Protection degree	IP20 acc. to EN60529				
Connection terminals Input	1.5...6mm², screw type (16...10AWG)				
Connection terminals Output	35mm², screw type (2AWG)				
Connection terminals Signals	1.5mm², screw type pluggable (24...12AWG)				
Case material	Aluminum				
Approx. Weight	2.8kg				
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				