

## DPS 2000B – 48 – 8 ETS TFF Power System



Illustrative photo

### General Features

- Up to 16 kW installed power
- Up to 14 kW with redundancy
- Fan cooled rectifiers FR 48 V – 2000 W – E
- Hot pluggable, all connectors at the rear side
- Efficiency  $\geq 92\%$
- LVD (low voltage disconnect) option
- Up to 3 PLD (Partial Load Disconnect) option
- Integrated battery shelves
- Power system controller PSC 1000 or PSC 3

### Applications

- Medium power systems
- Wireless base stations, GSM networks
- Telecommunications/data networks

### Description

The DPS 2000B-48-8 ETS is a modular large power system for power up to 16 kW. The stable construction is based on a frame cabinet design. The system contains one rectifier shelf for up to 8 FR 48 V – 2000 W – E rectifiers and a distribution unit with configurable elements for AC-, DC-distribution, LVD, PLD and a power system controller. The modular design allows flexible power system solutions in the ETS cabinet line and is the key factor of the success of this power system and it offers a cost effective and reliable solution.

This compact, high power density power system is the perfect choice for space-critical solutions.

## Technical data

General	
Efficiency	≥ 92 %
Losses, max.	1600 W (8 rectifiers)
Safety	IEC / EN 60 950
EMC	EN 300 386-2
Cooling	Fan cooled
Protection	IP 20

Battery connection	
MCB	1 to 6 x 125 A
LVD	Optional
Battery shelves	4 pcs, space for 4 x 150 Ah front pol batteries

Input	
AC connection	3L + N + PE
Nominal voltage	3 x 230 V <sub>RMS</sub> (L-N)
Voltage range, full power	184 to 300 V <sub>RMS</sub>
Voltage range, reduced power	88 to 184 V <sub>RMS</sub>
Frequency range	45 to 66 Hz
Nominal current	3 x 28,5 A <sub>RMS</sub> @ 16 kW
Maximum current	3 x 36 A <sub>RMS</sub> @ 16 kW
Inrush current	< 90 A <sub>PEAK</sub> per phase
Line current	Meets IEC 1000-3-2
Harmonic distortion THD	< 5%
Mains terminal	Terminal blocks
Input protection, recom.	3 x 40 A
Main switch	External
Transient OVP	Optional

Mechanics	
Construction	Sheet metal
Cabinet standard	ETS
Height, overall	2000 mm
Width, body	600 mm
Depth, overall	600 mm
Weight, system	120 kg
Weight, rectifiers	8 x 4,4 kg

Environment	
Operating temperature	-5 to +45 °C
Relative humidity	Max. 95% non cond.

Control and monitoring	
Power system controller	PSC 1000 PSC 3*
See leaflet for power system controller	

Output	
Nominal voltage	53.5 V <sub>DC</sub>
Voltage range	42 to 58 V <sub>DC</sub>
Voltage error, static	± 250 m V <sub>DC</sub>
Oversupply protection	59 V ± 1 V
Ripple + spikes	≤ 200 mVp-p
Psophometric noise	≤ 1.0 mV <sub>RMS</sub>
Nominal current	299 A <sub>DC</sub> @ 16kW, 53.5V
Maximum current limit	372 A <sub>DC</sub> @ 16kW, 43V
Nominal power	16 kW
Redundant power	14 kW
Reduced power	Min. 6400 W
Output terminal	Copper bar, rear side
Output protection	Internal fuse in each rect.

Options	
Number of rectifiers	1 to 8
AC connection	3L + N + PE
Power system controller	PSC 1000 PSC 3*
LVD	350 A
PLD	350 A
Transient OVP	for 3L + N + PE

Accessories	
Rectifier front cover	

\* on request

Load distribution	
MCB	1 to 18 pcs
PLD	Optional