

DPS 2000B – 48 – 16 ETS Power System



Illustrative photo

General Features

- Up to 32 kW installed power
- Expandable with a 2nd cabinet up to 64 kW
- Fan cooled rectifiers FR 48 V – 2000 W – E
- Hot pluggable, all connectors at the rear side
- Efficiency 92%
- LVD option
- Up to 3 PLD option
- Power system controller PSC 1000 or PSC 3

Applications

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

Description

The DPS 2000B-48-16 ETS is a modular large power system for power up to 32 kW. The stable construction is based on a frame cabinet design. The system contains two rectifier shelves for up to 16 rectifiers FR 48 V – 2000 W – E and different distribution units 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 power system is expandable with a 2nd cabinet.

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

Technical data

General	
Efficiency	≥ 92 %
Losses, max.	3200 W (16 rectifiers)
Safety	IEC / EN 60 950
EMC	EN 300 386-2
Cooling	Fan cooled rectifiers
Protection	IP 20

Input	
AC connection	2 x 3L + N + PE 16 x L + N + PE
Nominal voltage	3 x 230 V _{RMS} (L-N)
Voltage range, full power	184 to 300 V _{RMS}
Voltage range, reduced power	88 to 184 V _{RMS}
Frequency range	45 to 66 Hz
Nominal voltage	3 x 57 A _{RMS} @ 32 kW
Maximum current	3 x 72 A _{RMS} @ 32 kW
Inrush current	< 90 A _{PEAK} per phase
Line current	Meets IEC 1000-3-2
Harmonic distort. THD	< 5%
Mains terminal	Terminal blocks
Input protection, recom.	2 x 3 x 40 A (2 x 3~) 16 x 16 A (16 x 1~)
Main switch	External
Transient OVP	Option

Output	
Nominal voltage	53.5 V _{DC}
Voltage range	42 to 58 V _{DC}
Voltage error, static	± 250 m V _{DC}
Overvoltage protection	59 V ± 1 V
Ripple + spikes	≤ 200 mVp-p
Psophometric noise	≤ 1.0 mV _{RMS} (weighted)
Nominal current	598 A _{DC} @ 32kW, 53.5V
Maximum current limit	744 A _{DC} @ 32kW, 43V
Nominal power	32 kW
Redundant power	30 kW
Reduced power	Min. 12,8 kW

Load distribution	
Three/four rows	DFU 30 x MCB DFU 20 MCB DFU (7 + 19) x MCB DFU 12 x 00 DFU 8 EFEN00 DFU 7 x 01 DFU 7 x 02 DFU 2 x EFEN02 DFU 4 x EFEN02 DFU 5 x 03 DFU 4 x EFEN03 DFU 5 x 00 + 20 x MCB
PLD	Option

Battery connection	
EFEN3, fuse	2 or 4 x 630 A
MG motor contactor	2 or 4 x (3 x 250 A / pole)
LVD	Option

Mechanics	
Construction	Frame cabinet
Cabinet standard	ETS
Height, overall	2000 / 2200 mm
Width, body	600 mm
Depth, overall	600 mm
Weight, system	200 kg
Weight, rectifiers	16 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	

Options	
Number of rectifiers	1 – 16
AC connection	3L + N + PE (AC feed/shelf) L + N + PE (single AC feed for each rectifier) 3L + PE (220/240 VRMS L-L)*
Power system controller	PSC 1000 PSC 3*
LVD	600 A / battery fuse
PLD	600 A / distribution unit
Transient OVP	

Accessories	
Rectifier front cover	
Cable channel	

* On request

A2B, s.r.o. reserves the right to change any specifications without prior notice.