

DPS 1200B – 48 – 12 CS Power System



Illustrative photo

General Features

- Up to 14.4 kW installed power
- Fan cooled rectifiers DPR 1200B – 48
- Hot pluggable, all connectors at the rear side
- Efficiency 91%
- LVD option
- Up to 2 PLD option
- Power system controller PSC 1000, PSC 1 or PSC 3
- Different mounting options (wall or mountable on battery cabinet)

Application

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

Description

The DPS 1200B – 48 – 12 CS is a compact medium power system for power up to 14.4 kW. The stable construction is based on a sheet metal design. The system contains a rectifier shelf for up to 12 rectifiers DPR 1200B – 48 and one distribution unit with configurable elements for AC-, DC distribution, LVD, PLD and a power system controller. The power system can be mounted on top of the battery cabinet or to the wall.

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

Technical data

General	
Efficiency	≥ 91 %
Losses, max.	1425 W (12 rectifiers)
Safety	IEC / EN 60 950
EMC	EN 300 386-2
Cooling	Fan cooled rectifiers
Protection	IP 20

Input	
AC connection	3L + N + PE 2 x (3L + 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 current @ 14,4kW	3 x 23 A _{RMS} 2 x (3 x 11,5 A _{RMS})
Maximum current @ 14,4kW	3 x 30 A _{RMS} 2 x (3 x 15 A _{RMS})
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.	3 x 32 A 2 x (3 x 16 A)
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
Ripples + spikes	≤ 200 mVp-p
Psophometric noise	≤ 1.0 mV _{RMS} (weighted)
Nominal current	270 A _{DC} @ 14,4kW, 53,5V
Maximum current limit	335 A _{DC} @ 14,4kW, 43V
Nominal power	14,4 kW
Redundant power	13,2 kW
Reduced power	Min. 6000 W @ 90 V _{AC}

Load distribution	
MCB	1 to 41 pcs / 1 to 63 A
PLD	Optional (max. 2 pcs)

Battery Connection	
MCB	1 to 6 x 80 to 125 A 1 to 3 x 160 to 200 A
LVD	Optional

Mechanics	
Construction	Sheet metal
Cabinet standard	CS
Height, overall	600 mm
Width, body	600 mm
Depth, overall	400 mm
Weight, system	40 kg
Weight, rectifiers	12 x 1,25 kg

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

Control and monitoring	
Power system controller	PSC 1000 PSC 1 PSC 3
See leaflet for power system controller.	

Options	
Number of rectifiers	1 to 12
AC connection	3L + N + PE 2 x (3L + N + PE)
Power system controller	PSC 1000 PSC 1 PSC 3
LVD	300 A
PLD	200 A (max. 2 pieces)
Transient OVP	

Accessories	
Rectifier front cover	
Battery cabinets	
See leaflet for battery cabinets.	

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