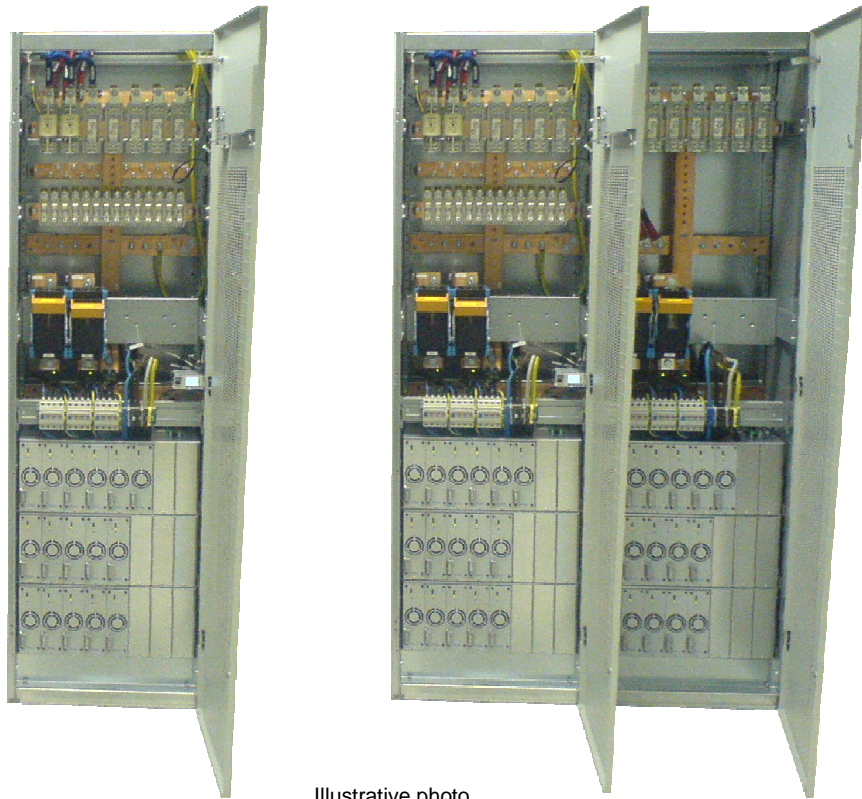


DPS 2000B – 48 – 24 ETS Power Supply



Illustrative photo

General Features

- Up to 48 kW installed power
- Expandable with a 2nd cabinet up to 96 kW
- Fan cooled rectifiers FR 48 V – 2000 W – E
- Hot pluggable, all connectors at the rear
- 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-48-24 ETS is a modular large power system for power up to 48 kW. The stable construction is based on a frame cabinet design. The system contains two rectifier shelves for up to 24 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. | 4800 W (24 rectifiers) |
| Safety | IEC / EN 60 950 |
| EMC | EN 300 386-2 |
| Cooling | Fan cooled rectifiers |
| Protection | IP 20 |

| Input | |
|------------------------------|-----------------------------------|
| AC connection | 3L + N + PE 3 x (3L + N + PE) |
| Nominal voltage | 3 x 230 V _{RMS} (L-N) |
| Voltage range, full power | 184 ÷ 300 V _{RMS} |
| Voltage range, reduced power | 88 ÷ 184 V _{RMS} |
| Frequency range | 45 ÷ 66 Hz |
| Nominal voltage | 3 x 85,5 A _{RMS} @ 48 kW |
| Maximum current | 3 x 108 A _{RMS} @ 48 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. | 3 x 3 x 40 A (3 x 3~) |
| Main switch | External |
| Transient OVP | Option |

| Output | |
|------------------------|-----------------------------------|
| Nominal voltage | 53.5 V _{DC} |
| Voltage range | 42 ÷ 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} |
| Nominal current | 897 A _{DC} @ 48kW, 53.5V |
| Maximum current limit | 1116 A _{DC} @ 48kW, 43V |
| Nominal power | 48 kW |
| Redundant power | 46 kW |
| Reduced power | Min. 19,2 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 | 2200 mm |
| Width, body | 600 mm |
| Depth, overall | 600 mm |
| Weight, system | 220 kg |
| Weight, rectifiers | 24 x 4,4 kg |

| Environment | |
|-----------------------|--------------------|
| Operating temperature | - 5 ÷ + 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 – 24 |
| AC connection | 3L + N + PE (AC feed/shelf) 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.