

BNH2 Power Supply



Illustrative photo

General Features

- Efficiency 90%
- Output voltage: 24, 60, 110, 220 V DC
- Designed to be used together with AR 1000 rectifiers
- Power factor correction of 0,98 (almost sinusoidal input current)
- Built for mounting onto 19" racks, 2U high
- Connection 1 or 2 battery sets and 1 or 2 outputs
- LCD display with measurements and setup parameters
- Remote supervision via potential free relay contacts
- Temperature compensation of the recharging voltage of batteries
- Charging current limitation
- Low voltage disconnect (LVD)
- Log of records (up to 2000 records)

Applications

- Telecom, industrial, control and security technologies

Description

This compact 19" rack solution contains an AR 1000 rectifier and a PX2B control module. The BNH2 power supply allows for a connection of 1 or 2 battery sets and 1 or 2 outputs, depending on customer's needs. Batteries can be placed as stand-alone or kept with the power supply (depending on the size of the cabinet). The front panel contains an LCD display with buttons. The BNH2 power supply is delivered assembled.

Technical data

| BNH2 | 24V DC | 60V DC | 110V DC | 220V DC |
|------------------------------|--|---------------|----------------|-------------------|
| Input | 24V DC | 60V DC | 110V DC | 220V DC |
| Voltage | 230V AC $\pm 10\%$ | | | |
| Frequency | 50Hz, 47 ÷ 63Hz | | | |
| Current | Max. 6A | | | |
| Protection | Fuse 10 A | | | |
| Efficiency | 90% | | | |
| Power factor (PFC) | $\cos \varphi$ 0,98 | | | |
| EMC | EN 55022 | | | |
| Safety | EN60950, IEC 950 | | | |
| Output | 24V DC | 60V DC | 110V DC | 220V DC |
| Nominal voltage | 24V DC | 60V DC | 110V DC | 220V DC |
| Operating voltage @ 20°C | 27,25 V | 68,1 V | 124,85 V | 245,5 V |
| Voltage range (selectable) | 22 ÷ 29V DC | 55 ÷ 72V DC | 100 ÷ 130V DC | 192,5 ÷ 269,5V DC |
| Output current | Max. 31 A | Max. 15 A | Max. 8 A | Max. 4 A |
| Voltage stability | $\pm 0,3$ V | | | |
| System | 24V DC | 60V DC | 110V DC | 220V DC |
| Dimensions (wdh) | 2U x 19" x 435 mm | | | |
| Weight (including rectifier) | 10 kg | | | |
| Ambient temperature | 0°C ÷ +40°C | | | |
| Protection | IP 20 | | | |
| Cooling | Fan cooled | | | |
| Life expectancy | 15 years (fans excluded) | | | |
| Communication | 24V DC | 60V DC | 110V DC | 220V DC |
| Visual and acoustic | LCD display (2 x 16 characters) + buzzer + LED | | | |
| Control and monitoring | Control panel with an LCD display and „SET“ and „NEXT“ buttons | | | |
| Remote signalling | Potential free relay contacts | | | |

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