AKKUTEC-2403-DIN





Short description

The battery buffered DC power supply of the series **AKKU***TEC* is working according the stand-by parallel mode and ensures in connection with a lead-acid accumulator a safe continuous DC power supply in case of mains failure.

The back-up time is depending from the state of charge of the accumulator and of the discharge current.

The power supply has the following features:

- Battery charger with I/U-charging characteristics
- Battery management by micro-controller
- Battery voltage tracking of the charging voltage by external sensor module (optional)

Nominal input voltage 230 V AC -15% -10% 47 – 63, Hz Nominal frequency System voltage 24V DC Output voltage (depending of state of charge of the battery) - with temperature sensor 19,8V DC-27,8V DC - without temperature sensor 19,8V DC-26,8V DC Nominal output current 2.85 A at 100% ED current limiting at 1,1 x I Nenn IP 20 Protective system Secure separation (safe separation between input According to EN61558-2-17 (VDE 0570 2-17) and output) Operational temperature 0 - 40 °C optimal storage temperature for battery 20°C. During storage charge battery each 6 month. Short circuit protection electronic, short-circuit-proof output Battery External Pb-Akku, maintenance free Type of battery Pb- Akku maintenance free (Option with modified characteristic curve) Battery fuse External Back-up time Depending on battery I/U DIN 41773 Teil 1 Charging characteristics Opt. Battery voltage tracking Charge voltage 26,8 V DC ± 0,4% without temperature sensor 27,1V DC ± 0,4% with temperature sensor

at 25°

AKKUTEC-2403-DIN

AC/DC DC UPS 24V 3A



Charging current at 100% load Charging current at 0% load Deep discharge protection of the battery

LED-display

Relais-outputs

Control input referring to earth 24 V Shut down terminal (emergency stop)

Battery management Battery circuit control Real battery power control

EMC-regulation

Type of construction Connection Dimensions Weight **Options** Shut down Software Battery voltage tracking 0.25 A 2,85 A Load rejection at a battery voltage \leq 19,8 V Net OK green input voltage is present Battery OK green expires at: -battery circuit interruption (battery fuse damaged) -voltage in UPS operation < 21,6 V (Battery low.) -battery temperature above 45°C LED is blinking at -battery low (damaged battery) Mains/UPS-operation 0,5 A /30 V DC 0,5 A /30 V DC general error As shut down Software for PC Abort of the UPS- operation Potential free switch input Switch level: 24 V DC (6-45 V DC) Battery management via internal Microcontroller Control battery circuit / battery fuse each 60 sec Battery load test during mains operation (load of the battery with simultaneous voltage measurement) each 24h. EN 55011/03/91 EN 50082-1/1.92 EN 61000-4-2,3,4,5,6,11 EN 50178 EN 60950 module Spring type terminal 60 x 92,5 x 116 mm (w x h x d) 0,55kg

TECControl

By connecting the external temperature sensor moduls (option) at the terminal strip 'IO-1' connection 1 and 2 (to consider polarity) the temperature tracking will be automatically activated.

According to the ambient temperature fluctuation of 0-45°C varying the charge voltage (and hence the output voltage) in a range from 27,85 - 26,3 V DC Battery temperatures above 45°C are indicated by the extinction of the display 'Batt OK'

Temperatures above 20°C at the batteries cause a strong reduction of the life duration of the batteries