AKKUTEC-2402-DIN

AC/DC DC UPS 24V 2A





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 115 - 230 V AC -15% +15%

Nominal frequency 47 - 63, Hz System voltage 24 V DC

Output voltage

(depending of state of charge of the battery)

with temperature sensorwithout temperature sensor19,8V DC-27,8V DC19,8V DC-26,8V DC

Nominal output current 2 A at 100% ED

current limiting at 1,1 x I Nenn

Protective system IP 2

Secure separation (safe separation between input

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

Battery type Pb-Akku, maintenance free

Pb- Akku maintenance free (Option with modified

According to EN61558-2-17 (VDE 0570 2-17)

characteristic curve)

Battery fuse External

Back-up time Depending on battery and load

Charging characteristics I/U DIN 41773 Teil 1

Opt. Battery voltage tracking

Charge voltage

without temperature sensor $26.8 \text{ V DC} \pm 0.4\%$ with temperature sensor $27.1 \text{ V DC} \pm 0.4\%$

at 25°

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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 2.1 A

Load rejection at a battery voltage ≤ 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 general error 0,5 A /30 V DC

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