



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)

• USB interface: with corresponding drivers and Schneider *TEC***Control** Software the message contacts can be controlled and a Shut-Down/Restart can be made.

Nominal input voltage	115 - 230 V AC -15% +10%
Nominal frequency	47 – 63, Hz
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	5 A at 100% ED
	current limiting at 1,1 x I Nenn
Protective system	IP 20
Secure separation (safe separation between input and output)	According to EN61558-2-17 (VDE 0570 2-17)
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 characteristic curve)
Battery fuse	external
Back-up time	Depending on battery
Charging characteristics	I/U DIN 41773 part 1
Charge voltage	Opt. Battery voltage tracking
without temperature sensor	
with temperature sensor	26,8 V DC ± 0,4%
at 25°	27,1V DC ± 0,4%

## AKKUTEC-2405-USB-DIN

AC/DC DC UPS 24V 5A with USB interface



Charging current at 100% load 0.5 A Charging current at 0% load 5.5 A Deep discharge protection of the battery Load rejection at a battery voltage ≤ 19,8 V LED-display Ua green voltage is present at the output 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) Relais-outputs mains/UPS-operation 0,5 A /30 V DC 0,5 A /30 V DC general error communication USB for parameterisation for operation with optional TECControl software as shut down Software for PC Abort of the UPS- operation Shut down terminal (emergency stop) Potential free switch input Switch level: 24 V DC (6-45 V DC) Battery management Battery management via internal Microcontroller Battery circuit control Control battery circuit / battery fuse each 60 sec Real Battery power control Battery load test during mains operation (load of the battery with simultaneous voltage measurement each 24h) EN 55011/03/91 **EMC-regulation** EN 50082-1/1.92 EN 61000-4-2,3,4,5,6,11 EN 50178 EN 60950 Type of construction module connection Spring type terminal 2.5 mm<sup>2</sup> power Spring type terminal 1,5 mm<sup>2</sup> messages Dimensions 75 x 160 x 150 mm (w x h x d) Weight 1,6kg Options **TEC Control** Shut down Software Battery voltage tracking

With the temperature-sensor at the terminal strip IO-1 and 2 the final charging voltage is automatically adjusted according the environmental conditions(26,2-27,3 V). Over temperature at the batteries (above 45°C) is displayed and announced . Temperatures above 20°C at the batteries cause a strong reduction of the life duration of the batteries