AKKUTEC-2420-CM

AC/DC UPS 230VAC / 24VDC 20A

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UPS - System Battery-buffered DC UPS

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 power supply has the following features:

- Primary switched power supply with I/U-charging characteristics
- active power factor correction (PFC)
- Battery management by micro-controller
- Battery voltage tracking of the charging voltage by external sensor module (optional)
- Display- and control panel for mount in cabinet door or module (optional)

Nominal input voltage 230 V AC -15% +10% Nominal frequency 50/60 Hz 24V DC System voltage **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 20A at 100% ED IP 20 Protective system Secure separation (safe separation between input According to EN61558-2-17 and output) 0 - 40 °C Full Power, up to 55 °C derate to 50% Operational temperature 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 Part 1 Charging characteristics Opt. Battery voltage tracking Boost-charge via control contact (til 28,6V) Charge voltage without temperature sensor 26,8 V DC ± 0,4% with temperature sensor 27,1V DC ± 0,4% at 25°



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LED-display 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 -battery temperature above 45°C -battery low (damaged battery) Relais-outputs Mains/UPS-operation 0,5 A /30 V DC general error 0,5 A /30 V DC battery voltage above 0,5 A /30 V DC battery voltage within 0,5 A /30 V DC battery voltage within 0,5 A /30 V DC Special features Active current division at Master – Slave respectively redundant operation via CS-Bus Time function	Charging current at 100% load Charging current at 0% load Deep discharge protection of the battery	2 A 22 A Load rejection at a battery voltage \leq 19,8 V
Relais-outputs-battery low (damaged battery)Relais-outputsMains/UPS-operation0,5 A /30 V DCgeneral error0,5 A /30 V DCbattery voltage above0,5 A /30 V DCbattery voltage within0,5 A /30 V DCControl input referring to earth +24 V DCshut downboost chargeboost chargeSpecial featuresActive current division at Master – Slave respectively redundant operation via CS-Bus Time function	LED-display	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
Special features boost charge Special features Active current division at Master – Slave respectively redundant operation via CS-Bus Time function	Relais-outputs	-battery low (damaged battery)Mains/UPS-operation0,5 A /30 V DCgeneral error0,5 A /30 V DCbattery voltage above0,5 A /30 V DC
Special features Active current division at Master – Slave respectively redundant operation via CS-Bus Time function	Control input referring to earth +24 V DC	
	Special features	Active current division at Master – Slave respectively redundant operation via CS-Bus
Expendable In 20A steps Master/Slave	Expendable	In 20A steps Master/Slave
Active PFCHarmonic ripple at input according to EN 61000-3-2 $PF \sim 0.99$	Active PFC	
Battery management via internal Microcontroller	Battery management	
Battery circuit control Control battery circuit / battery fuse each 60 sec	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.	Real battery power control	battery with simultaneous voltage measurement)
EMC-regulation EN 55011/03/91 EN 50082-1/1.92	EMC-regulation	
EN 50178		EN 50178
Type of construction module	Type of construction	module
Connection With terminals 4 mm ²	Connection	
Dimensions 101 x 241 x 244 mm (w x h x d)	Dimensions	101 x 241 x 244 mm (w x h x d)
Weight 2,4kg	Weight	2,4kg

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Options

Display-and control panel

Battery voltage tracking

Well readable, 20-digit, 2-line alpha numeric **LCDisplay** with back-ground illumination Separate possibility for adjustment of contrast and brightness Supply and data transfer via 2-wire Bus, therefore small wiring activity necessary Reading and writing of charging and control parameters Display of status messages in plain text Acoustic signal for warnings respectively errors (deactivatable) Possibility of display of the operational data also of redundant systems with only one panel Easy user prompting 3-button operation protection of functions with pass word levels suitable for mount in cabinet door (protective system IP54) 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.