



DC-UPS

NCPA0936G20xxx (AKKUTEK SVC)

1 Short description

The **AKKUTEK SVC** (Special Voltage Charger) is a charger for lead acid accumulators, which has several types of connection. Maximum 32 pieces of 12 Volt blocks are connected, they result in a total voltage of 450 Volt. Five blocks with a total voltage of 60 V are predefined as minimum. Further versions are listed in the operational instructions. The PC software **paraTEC-UCC** enables the adjustment on any number of accumulators.

The unit can be used in systems, in which high mechanical impacts and temperature variations occur. Because it is part of the security concept of the systems, it is equipped with additional security systems and diagnostics possibilities. The charger can be parameterized with the PC Software **paraTEC-UCC** and the operation can be monitored. Furthermore an operational mode can be selected, which enables the switch over from **AKKUTEK SVC** on **UCC-TEC**.

The back-up time depends on the state of charge of the accumulators and on the discharge current.

The **AKKUTEK SVC** has the following features:

- high mechanical stability
- Wide working temperature range
- serial interface ports for the connection of a PC (RS485) (for data exchange, parameterization, service function, remote control a. s. o.) and for connection to further **AKKUTEKs**
- particular immunity against electrical interferences
- Integration in PLC possible via RS485 respectively signaling contacts possible
- Battery monitoring
- Potential-free relays message contacts
- Potential-free Open-collector-message outputs

2 Technical Data

Input	
Nominal input voltage	400 V AC \pm 15 %
Input voltage range	340 V – 460 V AC
Input frequency	45 – 65 Hz
Rated current	0,8 A AC (U _e = 400 V AC)
max. inrush current	15 A / 0,5 ms
max. fusing	Safety fuse 3 x 4 A T automat Typ C3
Power factor AC-input	0,65 - 0,75 capacitive
Crest factor (AC)-input	2,0 - 2,5
Output	
Nominal output voltage U _n	450 V ... 60 V DC
Nominal output current	2 A DC
Short-circuit current	2 A DC

Charging characteristics	Constant current 2 A DC; with derating 0,5 A DC
General Data	
max. power loss 'Worst-Case'	90 W (Ua = 450 V DC)
efficiency Ua=225 V DC, Ia= 4.5 A and Ue=400 V AC	typ. 90 %
Back discharged current (without mains)	< 50 mA
Earth leakage current	< 3,5 mA
Protective system	IP 20 u. EN 60529
weight	7 kg
Storage temperature	-40 ... 70 °C
Operational temperature	-30 ... 40 °C
humidity	Max. 95 % (condensation not permissible)
max. mounting height (at 400-720 Volt)	2000 above sea level
dimensions	230 x 125 x 255 (H x B x T in mm)

3 Norms and regulations

Total unit	EN 50178 / EN 60950
EMC	EN 61000-6-2: 2001 ESD air: 8 kV ESD cabinet: 4 kV Burst at 400 V AC: 2 kV Surge at 400 V AC: 2 kV / 4 kV
environment	EN 60068-2-6 and EN 600068-2-7
Opto-coupler to ensure safe separation primary/secondary	VDE 0884
Power- HF- transmitter to ensure safe separation primary/secondary	EN 61558 2-17 (VDE 0570 2-17)