



DC-UPS

NBPA0347G01001

1 Short description

The battery buffered DC power supply of the series **AKKUTEK** 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)

2 Technical Data

Input voltage range	230V AC -15/+10%
Rated input current:	2,7A AC
Input frequency	47-63Hz
max. inrush current	65A / 3ms
Output voltage	a) 19...26,4V DC b) 19...28,6V DC (if boost charging is activated respectively at temperature tracking)
Final charging voltage	26,4V DC $\pm 0,4\%$
Charging characteristics	I/U DIN 41773-1
Deep discharge protection and load rejection at	19,8V DC $\pm 0,4\%$
Nominal output current	20A DC
Constant current limitation	1,05...1,1xI _{ANom}
Battery type	Pb-Akku, wartungsfrei
efficiency U _a =26,4V DC, I _a =20A und U _e =230V AC	88,8%
max. power loss 'worst-case'	82W
Earth leakage current	<3,5mA
Fusing primary	5A slow acting, 5x20 (internal)
max. pre-fusing	10A slow acting
fusing battery load circuit	25A slow acting (external)
fusing DC-output	25A slow acting (external)
Type of connection primary 'mains'	Combicon-screw type terminal 2,5mm ²
Type of connection secondary 'Ua', 'Batt'	Combicon-screw type terminal 4mm ²
Type of connection interface 'IO-1...IO-3'	Combicon-screw type terminal 1,5mm ²
Type of connection Current-Share-Bus 'CS'	Screw type terminal 2,5mm ²

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Reg.-Nr. 2750

Technical Datasheet

AKKUTEC 2420 1ph



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Display and messages	
,Netzbetrieb' operation	LED green illuminates: • Mains operation ($U_E > U_{Emin}$ and $T_{Int} < T_{Intmax}$)
\overline{U}	LED green (battery voltage within the monitoring window $21,6 < U_{Batt} < 27V$ DC)
\overline{U}	LED green (battery voltage above the monitoring window $U_{Batt} = 27V$ DC)
Fehler (fault)	LED red LED illuminates at: • Battery operation (during mains operation LED is not illuminated) • U_A - error • Battery circuit interrupted respective high-ohmic (Testintervall 60s) • Battery low • Battery reverse poled • Battery-over-temperature (only in connection with temperature tracking)
Signal in- and outputs	
Mains operation ¹⁾	potentialfree relay-contact, closer, max. contact load 30 V DC/ 0,5A
Fehler ¹⁾	potentialfree relay-contact, changer, max. contact load 30 V DC/ 0,5A
\overline{U} ¹⁾	potentialfree relay-contact, closer, max. contact load 30 V DC/ 0,5A
\overline{U} ¹⁾	potentialfree relay-contact, closer, max. contact load 30 V DC/ 0,5A
Shut-Down	Shut down of UPS mode Switch input, referring ot earth, switch level: 24V DC (16-80V DC)
Starkladung (Boost charging)	Activation of boost charging (boost charging voltage 28.6V DC) Switched input referenced to earth, switching level: 24V DC (16-80V DC)
Weight a) Individual Module b) 19" – version c) Installation Panel Version (without batteries) d) Installation Panel version with 7.0Ah Batt e) Installation panel version with 12.0Ah Batt.	ca. 3 kg ca. 6,0 kg ca. 3,8 kg ca. 9,5 kg ca. 13 kg
Storage Temperature	Recommended 0...30°C, Permissible 0...50°C
Operating Temperature	Recommended 10...20°C (battery life!), Permissible 0...40°C
Protective system	IP20
dimensions	
Individual module	100,5 x 240,5 x 244 mm (W x H x D)
On installation panel	340 x 256 x 252 mm (W x H x D)
19" Rack	482,6 x 132,5 x 244 mm (W x H x D)

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3 Norms and regulations

Safety of power transformers, power supply units and similar Particular requirements for transformers for switch mode power supplies	EN 61558 2-17 (VDE 0570 2-17)
Optocouplers for protective separation against electric shock, requirements - tests	VDE 0884
EMC	EN 55011 / 1998 /..Klasse A Group 1 EN 61000-3-2 und EN 61000-3-3 / Klasse A EN 50082-2 / 1995
This power supply is only accredited for industrial class A!	
Environmental testing	EN 60068-2-6
Total unit	EN 50178