



DC-UPS

NBPA1630G01***

1 Short description

The accumulator buffered DC supply works according to the standby parallel principle and guarantees, in connection with a lead accumulator and for a certain time interval, a safe upkeep of the DC supply in case of a mains failure. The overall output current is split up between consumer supply and lead accumulator charge.

The power supply is characterized by the following properties:

- Switching power supply with I/U charging characteristic
- aktiv power factor correction (PFC)
- Micro-controller supported lead accumulator management
- RS232 for monitoring and parameterization
- Temperature adjustment of the charging voltage by an external sensor

2 Norms and regulations

EMC	EN 55011 limit value class B EN 62040-2, limit value class C1 EN 61000-6-2 EN 61000-6-4
Total unit	2014/30/EU+A1+A2 EN 50178 EN 62368-1 EN 61010-1/ EN 61010-2-201
Optocoupler to ensure safe isolation primary/sec- ondary	EN 60747-5-1, complies with SELV / PELV
Power HF transformer to ensure safe separation of primary and secondary	EN 61558 2-16, complies with SELV / PELV

Technical Datasheet

AKKUTEK 4806



3 Technical Data

INPUT	
Nominal input voltage	230 V AC $\pm 15\%$ (196 V AC...265 V AC)
Nominal frequency	47 Hz ... 63 Hz
Nominal input current	1,6 A @ ($U_e = 230$ V AC, $U_a = 52,8$ V DC, $I_a = 6$ A)
Inrush current	≤ 35 A / 2 ms
Nominal input power	356 W @ ($U_e = 230$ V AC, $U_a = 52,8$ V DC, $I_a = 6$ A)
OUTPUT	
Nominal output voltage	48 V DC
Output voltage range (with temperature tracking)	43,2 V ... 57,2 V DC $\pm 0,4\%$
Output voltage range (without temperature tracking)	43,2 V ... 52,8 V DC $\pm 0,4\%$
Charging end voltage (with / without tem)	52,8 V DC $\pm 0,4\%$ / 52,8 V DC...57,2 V DC $\pm 0,4\%$
Load shedding	40,8 V DC $\pm 0,4\%$
Residual ripple	< 150 mV eff.
nominal output current	6 A
Self current consumption	35 mA @ 48 VDC oder 6,4W @ 230 VAC
Max power loss ,worst-case'	41 W @ ($U_e = 230$ V AC, $U_a = 52,8$ V DC, $I_a = 6$ A)
efficiency	88,5 % @ ($U_e = 230$ V AC, $U_a = 52,8$ V DC, $I_a = 6$ A)
Charging characteristics	I/U DIN41773
FUSING	
Internal device protection	2,5 A (T), 250 V
fuse DC-output circuit (external)	7,5 A (T), 250 V
Fuse DC-Battery circuit (external)	7,5 A (T), 250 V
Pre-fusing	5 A (T), 250 V
IN GENERAL	
Protective system	IP20
Overvoltage category	II
Degree of pollution	2
Accumulator type	VRLA lead battery*
Dimensions (HxWxD)	155 mm, 95 mm, 183 mm
Weight	1.6 Kg
Operating temperature / storage temperature	-10 °C ... 50 °C
Rel. Humidity	$\leq 95\%$ no condensation
Max. installation altitude without load reduction	2000 m above sea level

*.basic parameterization for VRLA-Batteries (AGM, SLA)