AKKU*TEC* 4810

*NBPA0347G01****

1 Brief description

The **AKKU***TEC* is a battery-buffered power supply and it works in accordance with the standby parallel principle. The batteries are charged in grid mode. The connected consumers are supplied simultaneously. At grid failure the **AKKU***TEC* in conjunction with the batteries ensures that a safe supply of direct current remains intact for a specific period of time.

The **AKKU***TEC* has the following properties:

- Primary clocked, switched-mode supply with I/U charging curve
- Active power factor correction (PFC)
- Microcontroller-supported battery management
- Operating and display panel for installation in control cabinet door
- Temperature tracking of the charging voltage via external sensor

2 Standards and regulations

Total device	2014/35/EU (Low Voltage Directive) 2011/65/EU with 2015/863/EU (RoHS) 1907/2006/EG (REACH) 2009/125/EC (Eco-Design) EN 61010-1 / EN 61010-2-201 EN 62368-1
EMC	2014/30/EU (EMC Directive) EN 55011 Limit Class B Group 1 EN 61000-6-2 EN 61000-6-4

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3 Technical data

Input	
Rated input voltage	230 V AC
Perm. input voltage tolerance	±15%
Frequency	50 / 60 Hz ±3 Hz
Rated input current	2.6 A @ 230 V AC
Switch-on current	≤65 A/3 ms
Rated input power	598 W @ (Ue = 230 V AC, Ua = 53.6 V DC, Ia = 10 A)
Output	
Rated output voltage	48 V DC
Output voltage (without temperature tracking)	39.6 - 53.6 V DC ±04%
Output voltage (with temperature tracking)	39.6 - 56.0 V DC ±0.4%
Output voltage (heavy charging)	57.2 V DC
Plateau charging voltage with/without temperature tracking	53.6 V DC ±0.4% / 53.0 - 56.0 V DC ±0.4%
Load shedding (deep discharge protection)	39.6 V DC ±04%
Rated output current	10 A
Charging current limit	10.75 A ±0.25 A
Internal consumption in buffer mode	135 mA
Power loss	62 W @ (Ue = 230 V AC, Ua = 53.6 V DC, Ia = 10 A)
Efficiency	89.7 % @ (Ue = 230 V AC, Ua = 53.6 V DC, Ia = 10 A)
Charging characteristic**	IU curve DIN 41773-1
Fusing	
Fusing of the battery circuit	Max. 10 A
Fusing – output	External
Recommended prefusing	Max. 10 A
General	
Protection rating of the enclosure	IP20
Overvoltage category	II
Pollution Degree	2
Battery type	Lead-acid battery*
Dimensions (H x W x D) standard device	241 mm x 101 mm x 234 mm
Weight of the standard device (without batteries)	2.9 kg
Operating temperature	0 °C - +40 °C
Storage temperature	0 °C - +50 °C
Relative humidity	≤95% non-condensing
Max. elevation above sea level	2000 m

*Basic parameter settings for VRLA lead-acid battery (AGM, SLA, gel battery)

**Parameters can be set for other battery types