Data sheet

AKKU*TEC* 2410

J. Schneider Elektrotechnik

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*NBPAN33G1****
*NBPCN33G1****

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 UL 508 / C22.2 no. 107.1
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	1.4 A @ 230 V AC
Switch-on current	≤35 A/2 ms
Rated input power	303 W @ (Ue = 230 V AC, Ua = 26.8 V DC, Ia = 10 A)
Output	
Rated output voltage	24 V DC (SELV / PELV)
Output voltage (without temperature tracking)	19.8 - 26.8 V DC ±0.4%
Output voltage (with temperature tracking)	19.8 - 8.0 V DC ±0.4%
Output voltage (heavy charging)	28.6 V DC
Plateau charging voltage with/without temperature tracking	26.8 V DC ±0.4% / 26.5 - 28.0 V DC ±0.4%
Load shedding (deep discharge protection)	19.8 V DC ±04%
Residual ripple	<150 mVeff
Rated output current	10 A
Charging current limit	10.75 A ±0.25 A
Internal consumption in buffer mode	65 mA
Power loss	35 W @ (Ue = 230 V AC, Ua = 26.8 V DC, Ia = 10 A)
Efficiency	88.3% @ (Ue = 230 V AC, Ua = 26.8 V DC, Ia = 10 A)
Charging characteristic**	IU curve DIN 41773-1
Fusing	
Fusing of the battery circuit	Max. 15 A
Fusing – output	External
Recommended prefusing	Max. 5 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 Dimensions (H x W x D) mounting plate 7 Ah / 12 Ah	216.5 mm x 90.5 mm x 175 mm 256 mm x 340 mm x 181 mm
Weight of the standard device (without batteries) Weight of the standard device with mounting plate 7 Ah Weight of the standard device with mounting plate 12 Ah	1.7 kg 6.6 kg 9.3 kg
Operating temperature	0 °C - +40 °C
Storage temperature	0 °C - +50 °C
Relative humidity	≤95% non-condensing
Max. elevation above sea level (without capacity reduction)	2000 m

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

**Parameters can be set for other battery types