



FEATURES

- **Completely encapsulated: waterproof, shockproof and ignition protected**
- **Protected against overheating**
- **Automatic three stage charging**
- **Two LED's for status indication**

DESCRIPTION

Completely encapsulated: waterproof, shockproof and ignition protected

Water, oil or dirt will not damage the SA-VBA chargers. The casing is made of cast aluminium and the electronics are molded in resin.

Protected against overheating

Can be used in a hot environment such as a machine room. Output current will reduce as temperature increases up to 60°C, but the SA-VBA charger will not fail.

Automatic three stage charging

Once the absorption voltage has been reached, the SA-VBA charger will switch to float charge after the charge current has reduced to a low break point current (see specifications), or after a 20 hour absorption period. The battery is therefore effectively protected against overcharging and can remain permanently connected to the charger. The charger will automatically reset and start a new charge cycle after interruption of the AC supply.

Two LED's for status indication

Yellow LED: battery being charged

Green LED: float charge, the battery is charged

INSTALLATION INSTRUCTIONS

The battery chargers are only intended for 12 V respectively 24 V volt lead-acid rechargeable batteries with a capacity as indicated in the tables on pages 2 , 3

When charging batteries with a lower capacity contact the battery manufacturer.

Caution! The battery can generate gases when being charged – avoid open flames and sparks.

Connection: Red wire to positive battery (+) and black wire to negative battery (-) pole. If battery is installed in a vehicle, the black wire (-) is connected to the chassis of the vehicle, away from the fuel line. Then connect the mains plug.

Disconnection: First disconnect from mains, second disconnect the black (-) wire, finally disconnect red (+) wire.

Operation: Yellow LED lit, battery being charged. Green LED lit, maintenance (equalizing) charging. Battery full.

DC Fuse: SA-VBA-12-6 max. 10 A , SA-VBA-12-15 max. 20 A , SA-VBA-24-3 max. 5 A , SA-VBA-24-12 max. 15 A

SPECIFICATIONS AND STANDARD MODELS

MODEL	SA-VBA-12-7	SA-VBA-12-17	SA-VBA-24-3	SA-VBA-24-12
Input Voltage (VAC)	200-265VAC			
Frequency (Hz)	45-65			
Charge voltage 'absorption' (VDC)	14.4	14.4	28.8	28.8
Charge voltage 'float' (VDC)	13.6	13.6	27.2	27.2
Charge current (A)	7	17(2)	3	12
Charge characteristics	3 stage with max. 20 hours absorption time			
Minimum Battery capacity	15	35	6	24
Breakpoint current (A)	0.7	1.7	0.3	1.2
Can be used as a power supply	Yes	Yes	Yes	Yes
Protection ⁽¹⁾	A , B , C			
Operating temperature range	-20 to +60°C (full rated output up to 40°C) ⁽²⁾			
Humidity	Up to 100%			
ENCLOSURE				
Material & color	Aluminum (Blue RAL 5012)			
Battery connection	Black and red cable of 1.5 meter			
230VAC connection	Cable of 1.5 meter with plug			
Protection category	IP65			
Weight (Kg)	1.1	1.4	1.1	1.4
Dimensions (h x w x d in mm)	43 x 80 x 155	47 x 99 x 193	43 x 80 x 155	47 x 99 x 193
STANDARDS				
Safety	EN 60335-1 , EN60335-2-29			
Emmission	EN55014-1 , EN61000-3-2			
Immunity	EN55014-2 , EN61000-3-3			

Notes:

(1) Protection : A. Battery reverse polarity (fuse in battery cable) B. Output short circuit C. Over temperature

(2) Forced cooling required for continuous full rated output

SPECIFICATIONS AND STANDARD MODELS

MODEL	SA-VBA-12-6-110	SA-VBA-12-15-110	SA-VBA-24-3-110	SA-VBA-24-8-110
Input Voltage (VAC)	200-265VAC			
Frequency (Hz)	90-135VAC			
Charge voltage 'absorption' (VDC)	14.4	14.4	28.8	28.8
Charg voltage 'float' (VDC)	13.6	13.6	27.2	27.2
Charge current (A)	6	15(2)	3	8
Charge characteristics	3 stage with max. 20 hours absorption time			
Mimumum Battery capacity	12	24	6	16
Breakpoint current (A)	0.6	0.8	0.6	0.8
Can be used as a power supply	Yes	Yes	Yes	Yes
Protection ⁽¹⁾	A , B , C			
Operating temperature range	-20 to +60°C (full rated output up to 40°C) ⁽²⁾			
Humidity	Up to 100%			
ENCLOSURE				
Material & color	Aluminum (Blue RAL 5012)			
Battery connection	Black and red cable of 1.5 meter			
230VAC connection	Cable of 1.5 meter with plug			
Protection category	IP65			
Weight (Kg)	1.1	1.4	1.1	1.4
Dimensions (h x w x d in inches)	1.5 x 3.2 x 6.2	1.8 x 4.0 x 7.7	1.5 x 3.2 x 6.2	1.8 x 4.0 x 7.7
STANDARDS				
Safety	EN60335-2-29			
Emmission	EN55014 , EN60555-2 , EN60555-3			
Immunity	EN55014-2			

Notes:

(1) Protection : A. Battery reverse polarity (fuse in battery cable) B. Output short circuit C. Over temperature

(2) Forced cooling required for continuous full rated output