

Blue Smart IP 65/67

Automatic optimization of the charging process

The BlueSmart Battery Chargers feature a micro-processor controlled “adaptive” technology which controls the charge of the battery. The “adaptive” features will automatically optimise the charging process based on the battery duty cycle.

Ideal for its use in Marine Aids to Navigation installations

This charger is ideal for its use in Marine Aids to Navigation installations as a power supply complement. Completely encapsulated in resin, thus providing a high resistance under harsh humidity and salinity conditions.

Automatic charging cycle

Adaptive 3- or 4-stage charge characteristic, depending on model.



FEATURES

- Waterproof, ignition protected and shockproof:
 - Water, hydrocarbons or dirt will not damage the charger.
 - The enclosure is made from cast aluminium and the electronics are moulded in resin.
- Protected against overheating:
 - Can be used in hot environment such as machine room, battery boxes or maritime towers.
 - Output current will be reduced when temperature increases (up to 60°C), but the charger will not fail.
- 92% efficiency or better. Once the battery is fully charged, power consumption reduces to less than 1 Watt.
- Adaptive 4-stage charge: bulk - absorption - float - storage. The “adaptive” feature will automatically optimise the charging process based on the battery duty cycle (12/7 model, 3-stage charge).
- Two LEDs for status indication:
 - LED yellow: bulk charge.
 - LED green: float mode, battery charged.
 - LED yellow and green: absorption charge.
- The “storage” mode prevents stratification of the electrolyte and sulphation, major cause of early battery failure.

BLUE SMART

Standard specifications

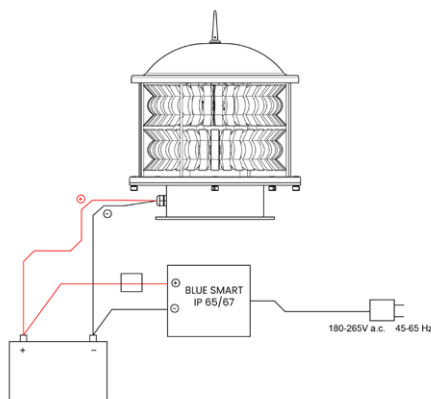
BLUE SMART CHARGER	12/7	12/17	12/25	24/8	24/12
Input voltage range and frequency	200-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz
Efficiency	92%	94%	92%	95%	93%
No load power consumption	0.5 W	0.5 W	0.5 W	0.5 W	0.5 W
Charge voltage 'absorption' (V d.c.)	14.4	14.4	14.4	28.8	28.8
Charge voltage 'float' (V d.c.)	13.7	13.7	13.7	27.4	27.4
Charge voltage 'storage' (V d.c.)	-	13.2	13.2	26.4	26.4
Charge current (A)	7	17	25	8	12
Charge algorithm	3-stage with 18-hour limited absorption.	4-stage adaptive.			
Can be used as power supply	✓				
Protections	Battery reverse polarity, short circuit and over temperature.	Battery reverse polarity, short circuit, over temperature and transient overvoltage.			
Operating temp. range	From -20° to +60°C (full rated output up to 40°C).				
Humidity	Up to 100%.				

Enclosure

Material & Colour	Aluminium (blue RAL 5012)			
Battery-connection	Black and red cable of 1.5 m			
230 V a.c.-connection	Cable of 1.5 m with CEE 7/7 plug			
Protection category	IP 65	IP 67		
Weight (kg)	1.1	2.4	2.4	2.4
Dimensions (mm)	43 x 80 x 155	99 x 219 x 65		

Standards

Safety	EN 60335-1	EN 60335-2-29
Emission/ Immunity	EN 55014-1-2	EN 55014-1
	EN 60555-2-3	EN 61000-6-3
		EN 61000-3-2



Specifications subject to change
without previous notice.

