

BLUEPOWER IP65/67

Battery Charges

The BluePower Battery Chargers feature a microprocessor 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.

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.

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.



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Specifications subject to change without previous notice.

Standard specifications

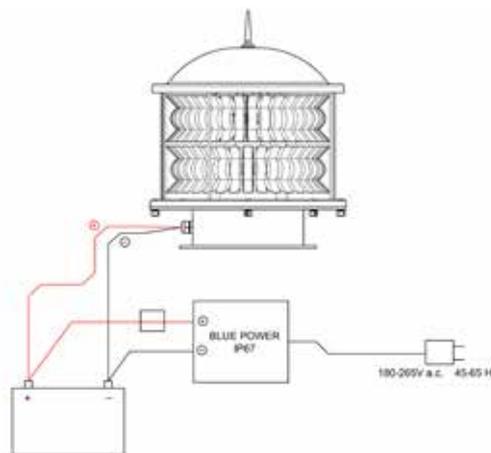
BLUE POWER CHARGER	12/7	12/17	12/25	24/8	24/12
Input voltage range and frequency	200-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz	180-265V a.c. 45-65 Hz
Efficiency	92%	94%	92%	95%	93%
No load power consumption	0.5W	0.5W	0.5W	0.5W	0.5W
Charge voltage 'absorption' (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	De -20° a +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)	43x80x155	99x219x65		

Standards

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



Mediterráneo Señales Marítimas, S.L.
 Pol. Ind. Mas de Tous - C/ Oslo 12
 46185 La Pobla de Vallbona - Valencia SPAIN
 +34 96 276 10 22
 msm@mesemar.com
 www.mesemar.com

