

- ✓ 3 stage charger
- ✓ Extremely compact design
- ✓ Microprocessor-controlled
- ✓ Ability to charge batteries drained to extremely low voltage



Designed for recreational and industrial marine applications, the Marine Charge 12v range provides an adaptive three stage smart charge to recharge Lead-Acid 12v battery stacks as quickly as possible. It also has the ability to operate from fluctuating and poorly regulated power supplies. Its precise microprocessor control of both voltage and current simultaneously guarantees a fully charged battery and avoids overcharge.

Electrical	MC12-05	MC12-30	MC12-60
Max Output Current	5A	30A	60A
Working AC input Voltage Range	180 - 240V	180 - 240V	180 - 240V
Over Temperature Protection	60C	60C	60C

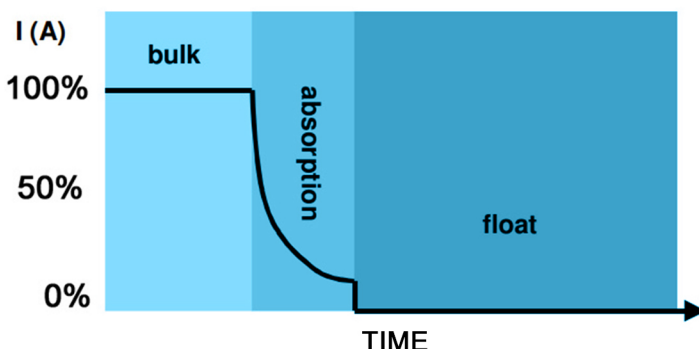
#### Protection Functions

Short Circuit Protection	Reverse Polarity Protection
Fuse	Battery overcharging protection

#### General

DC Terminal	M4 bolt	M6 Bolt	M6 Bolt
Temperature Range	-10C to +40C		
Weight	0.5 kg	1.9 kg	3.2 kg
Dimensions (H x W x L)	100 x 30 x 63 mm	270 x 139 x 73 mm	270 x 199 x 78 mm

#### Three-Stage Charging



Multistage charging ensures your batteries receive optimum charging, but with minimal wear and tear, regulating the voltage and current delivered to the batteries in three automatic stages:

**Bulk:** Replaces 70-80% of the battery's state-of-charge at the fastest possible rate.

**Absorption:** Replenishes the final 20-30% of capacity, bringing the battery to a full charge at a slow, safe rate.

**Float:** Voltage is reduced to 13.8v and held constant in order to prevent damage and maintain batteries at a full charge.