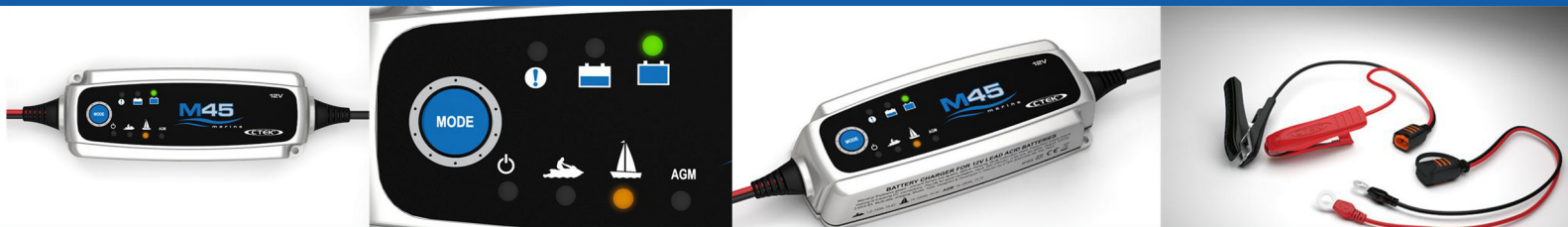




# M45 (56-385)

## 12V



Even small boats with 12V-batteries (7-75Ah and up to 120 Ah for maintenance charging) require a charger designed to withstand the demanding marine environment. M45 is a high quality 4-step charger with unique functions such as desulphating and safe maintenance charging between seasons.

Featuring different charging programs: one program for small batteries (approx. 7-30Ah) supplying 0.8A, one program for normal size batteries (approx. 40-75Ah) and one program for AGM-batteries, which require slightly higher charging voltage of 14.7V instead of the usual 14.4V, supply 3.6A

IP65 classification means that M45 is splash and dustproof. It does not generate any harmful galvanic currents, is fully compatible with the boat's electronics and has been developed to offer safe charging: non-sparking, reverse polarity protection and short circuit proof. M45 comes with a five year guarantee.

### Functions

Auto: Fully automatic for optimal charging

12V: For all lead-acid batteries

Fully Charged Battery / Maintenance Charging

COLD/AGM: Charging in cold conditions and AGM batteries



Cooling	Natural convection
Volt	12V
Rated Voltage	220-240VAC, 50-60Hz
Charging voltage	SMALL, NORMAL: 14.4V, COLD/AGM: 14.7V
Min battery voltage	2.0V
Charging current	3,6A max
Current, mains	0.65A rms (at full charging current)
Back current drain	<1Ah/month
Ripple	<4%
Ambient temperature	-20°C to +50°C, output power is reduced automatically at high temperatures
Charger type	4-step, fully automatic charging cycle
Battery types	All types of 24V lead-acid batteries (WET, MF, Ca/Ca, AGM and GEL)
Battery capacity	7-75Ah up to 120Ah for maintenance
Dimensions	165 x 61 x 38mm (L x W x H)
Insulation class	IP65
Weight	0.5kg