CTEK
MARINE CHARGER
SOLVES STRATIFICATION

SIMPLICITY – SAFETY – FLEXIBILITY

5 YEARS WARRANTY

CTEK M100
CTEK M100 is an 8 step, fully automatic primary switch mode battery charger. It is a great choice for the marine market and boats with batteries from 14-250Ah. Unlike old battery chargers, CTEK chargers are designed with a focus on simplicity, safety and flexibility. Marine batteries need special care as they are put under a lot of pressure. The batteries need to recover quickly to satisfy the needs and comfort of the boat owner.

- **Fully automatic**

CTEK M100 offers a fully automatic charging cycle, the charger takes its own readings and then begins to charge the battery in eight steps, including pulse maintenance (arguably the most caring mode for a battery connected for a long time – patented system by CTEK) for best performance and service life. CTEK M100 can be connected for months, which is ideal when the boat is not in use and during the off season.

- **No harmful galvanic currents**

CTEK M100 produces no harmful galvanic currents that cause corrosion which quickly damages various metal components under the boat, including propellers and ladders.

- **Counteracts sulphation**

Unused batteries lose their power and their life is shortened through sulphation. It is also more difficult to charge sulphated batteries. CTEK M100 has a patented method, the charger analyses the state of the battery and then, if possible, recovers the battery and its power.

- **Unique Recond and Supply mode**

The unique Recond mode restores the power capacity in a stratified battery and therefore prolongs its life. It is really important as marine batteries are very strained and often get deeply discharged which causes stratification. The Supply mode serves as a power supply unit which can run 12V equipment up to 7A and when for example changing a battery, important settings will not be lost.

- **Compatible with the boats electronic equipment**

The marine environment is filled with GPS, navigation systems and other devices that are sensitive. Unlike less-sophisticated chargers, there is no need to disconnect the battery when charging as CTEK M100 is specially designed not to damage the electronic systems.

- **Made for all weather conditions and situations**

CTEK M100 is prepared to charge or maintain, no matter the weather, temperature or situation. CTEK M100 is extremely robust as well as water and dust resistant (IP65 classification). CTEK M100 is certificated for use between –20°C and +50°C. In order to make things easier and more convenient, the attached "Comfort Connect" can be permanently connected to the boat battery.

- **Designed for safety**

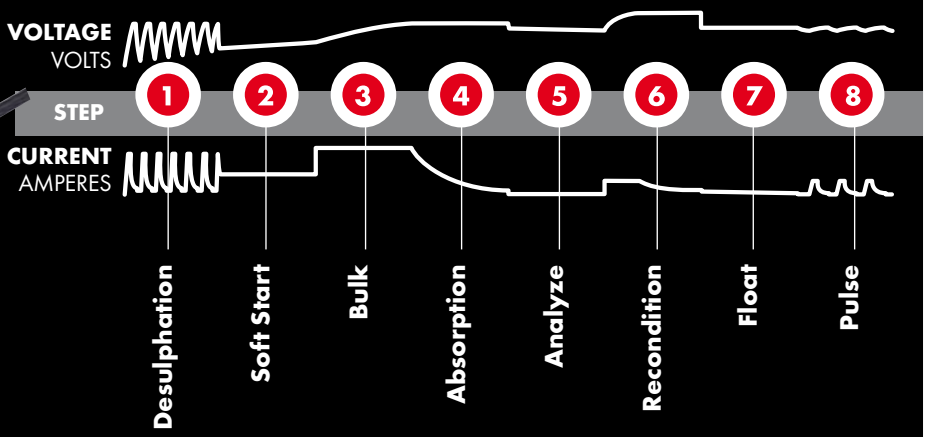
All CTEK models are designed to consider the safety of the user. They are spark free making the connection much easier and safer considering the gases batteries normally produce. CTEK M100 is also protected from reverse polarity connections and is short-circuit proof. A red light on the charger will simply indicate that the charging cannot begin until the user has connected the charger correctly.

12V
7A
100W
14–150Ah (charging)
14–225Ah (maintenance)
IP65

CTEK®

THE SMARTEST BATTERY CHARGERS IN THE WORLD

M100
8 step



Technical data – M100

Input voltage AC	**170–260VAC, 50–60Hz**
Output voltage	**Nominal: 12V**
Efficiency	**HIGH 85%**
Charging voltage	**14.4V, 14.7V, 13.6V/Supply, 15.8V/Recond**
Charging current	**7A max**
Back current drain*	**<1Ah per month**
Ripple**	**~4%**
Ambient temperature	**-20°C to +50°C, output power is reduced automatically at higher temperatures**
Cooling	**Natural convection**
Type of charger	**8 step, fully automatic switch mode with Float/Pulse maintenance**
Type of batteries	**12V lead-acid batteries (Wet, MF, AGM, GEL and Ca)**
Battery capacity	**Charging: 14–150Ah, Maintenance: 14–225Ah**
Dimensions (LxWxH)	**191x89x48mm**
Insulation class	**IP65 (splash and dust proof)**
Weight	**0.8kg**

*) Back current drain is what drains the battery if the charger is connected without the power cord connected.
**) Ripple describes the quality of the current and voltage. A high current ripple heats the battery and shortens its life. A linear charger has a current ripple of 70–400% which is much larger than the maximum 5% for a modern sealed battery. High voltage ripple could harm other equipment that is connected to the battery. M100 delivers voltage and current with very low ripple. The battery has a long service life and there is no risk of damage to other electronic devices connected to the battery.

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