

# CTEK MARINE CHARGER ADVANCED BATTERY CARE

**SIMPLICITY – SAFETY – FLEXIBILITY**



## **CTEK M300 WITH CTEK M300 STARTER**

CTEK M300 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 50-500Ah and maintenance of the starter battery with the CTEK M300 STARTER. Unlike old battery chargers, CTEK chargers are designed with a focus on simplicity, safety and flexibility. They will recover the batteries quickly and satisfy the needs and comfort of the boat owner.



- **Fully automatic**

In addition to normal charging, CTEK M300 offers a fully automatic charging cycle with its patented system for pulse maintenance. CTEK M300 analyses the condition of the battery, charges when necessary and maintains the battery when the boat is not in use. CTEK M300 STARTER offers fully automatic pulse maintenance charging for the starter battery.

- **No harmful galvanic currents**

Neither the CTEK M300 nor CTEK M300 STARTER produces any harmful galvanic currents that causes 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 sulfation. It is also more difficult to charge sulfated batteries. The CTEK M300 has a patented method for reconditioning sulfated batteries. The charger analyzes the state of the battery and, if possible, recovers the battery and its power.

- **Recondition the battery**

Using CTEK's unique RECOND mode can correct the acid stratification that often occurs in fully discharged batteries. The battery thereby has its power restored and enjoys an extended service life.

- **Designed for safety**

CTEK develops all of its battery chargers with safety in mind, for the user, for the battery and for the sensitive electronic equipment installed in all modern boats. CTEK M300 and CTEK M300 STARTER are non-sparking, reverse polarity protected as well as short-circuit-proof and they do no damage to the boat's electronic equipment either.

- **Designed for a tough marine environment**

CTEK M300 is IP44 classed which means that it is approved for outdoor use. They charge equally well at  $-20^{\circ}\text{C}$  as they do at  $+50^{\circ}\text{C}$  thanks to the charging voltage being adapted to suit the temperature of the battery, and that the components and cables are of the highest possible quality. CTEK M300 STARTER is IP65 classed and also charges in the same temperature conditions as the CTEK M300.

- **Silent night mode**

With CTEK M300 there is no need to switch off the charger in order to sleep soundly. The practical and convenient NIGHT mode function now provides silent charging.

- **Complete purchase guaranteed**

When buying a CTEK M300 there is a guaranteed complete purchase which means there is no need to buy any additional components or accessories.

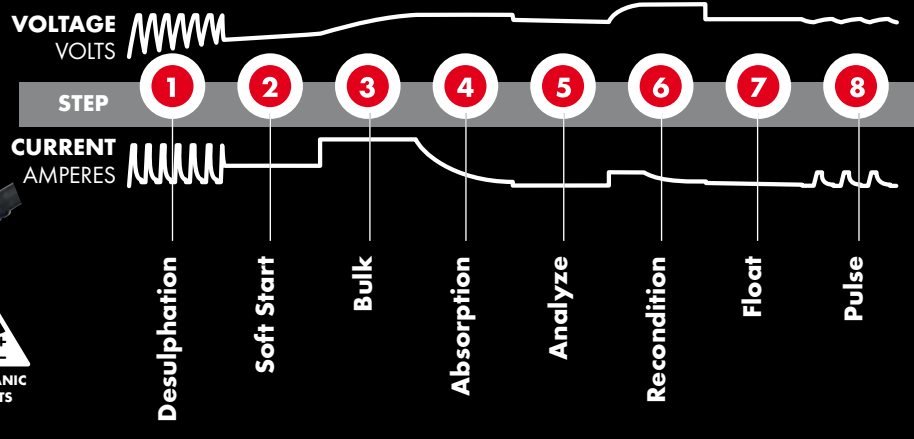
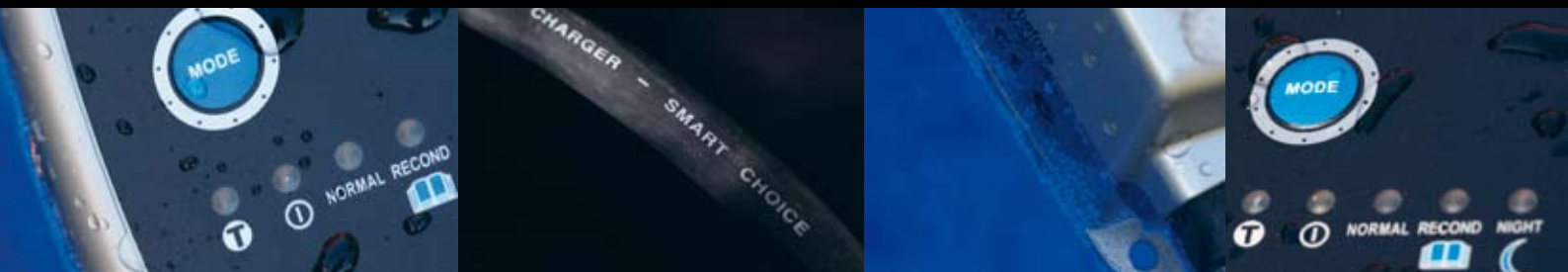
**12V  
25A  
300W**

**50–500Ah (charging)  
50–500Ah (maintenance)**

**IP44**



**THE SMARTEST BATTERY CHARGERS IN THE WORLD**



## Technical data – M300

Input voltage AC	170–260V AC, 50–60Hz
Output voltage	Nominal: 12V
Efficiency	HIGH 85%
Charging voltage	14.4V, temperature compensated
Charging current	25A max
Back current drain *	<2Ah per month
Ripple **	<4%
Ambient temperature	-20 °C to +50 °C, output power is reduced automatically at higher temperatures
Cooling	Fan
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: 50–500Ah, Maintenance: 50–500Ah
Dimensions (LxWxH)	235x130x65mm, 4 metre cable with cast eyelet terminals
Insulation class	IP44 (outdoor use)
Weight	1.4kg

\*) 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. The M300 and M300 STARTER deliver 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.  
**IP44 cannot be guaranteed unless the charger is positioned with its top or long side facing up.**  
**M300 STARTER has the same characteristics and technical data as XS 800. More information can be found in CTEK's leaflets or at [www.ctek.com](http://www.ctek.com).**



[www.ctek.com](http://www.ctek.com)

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