

# THE NEW GENERATION SMART BATTERY CHARGING

THE WORLD'S SMARTEST BATTERY CHARGERS, NOW EVEN SMARTER

## SIMPLICITY – SAFETY – FLEXIBILITY

**CTEK MULTI XS 4003** is smarter and safer than any other consumer charger yet seen. This is CTEK's third generation charger, with more features and more safety features than ever. The improvements are many, reflecting CTEK's innovations and high demands on quality and safety.

CTEK MULTI XS 4003 is suitable for both advanced charger applications and the more general applications for cars, motorcycles, jet skis, snow scooters, or other vehicles using small or medium-size lead batteries.



- **Fully-automatic complete 8-step charging**

MULTI XS 4003 is just as user-friendly and easy as earlier chargers, but offers more features. By pressing the Mode button you shift to the type of charging that you wish to perform (smaller or bigger batteries, outdoors in the cold, or to recondition the battery), the charger takes care of the rest with its fully-automatic, unique 8-step charging. You can easily see which of the 8 steps of the charging is in progress. When charging is completed, the charger shifts automatically to trickle charging.

- **Flexibility for different charging applications**

By using MULTI XS 4003 it is possible to charge and maintain all types of 12V lead batteries. The low-voltage mode (motorcycle symbol) is designed for charging small 12V batteries, eg, motorcycle, lawn mower, jet ski, snow scooter. The mode for higher charging voltage (car symbol) is suitable for cars, boats, or other lead batteries of similar size. The mode for winter charging (snowflake) increases the charging voltage to make sure that the battery can accept charging efficiently in cold conditions. There are also certain types of lead batteries (AGM) that are charged more efficiently in this mode.

- **Favourable solutions for deeply discharged batteries**

Deeply discharged batteries that remain unused for a long period are often affected by acid stratification. Through its unique RECOND-feature, acid stratification is counteracted to give the battery back most of its capacity and multiply its length of life. Many chargers cannot start the charging process if the battery is discharged too deeply. CTEK MULTI XS 4003 and other CTEK models are specially developed to cope with the most deeply discharged batteries.

- **Developed for today's needs of vehicles and batteries**

Today's batteries are better than before, both with regard to capacity and length of life, but they require improved maintenance by good chargers. The development of vehicles is also moving forward rapidly and computer and electronic equipment is becoming more powerful and significant for vehicle performance. It is however sensitive, and charging at uneven tension implies a risk of damage to the expensive equipment. CTEK MULTI XS 4003 is fully compatible with computer and electronic equipment of the vehicles.

- **Care, analysis and maintenance**

CTEK MULTI XS 4003 starts the charging process using its patented feature to remove the sulphate deposits that with time have formed in the battery. The actual charging then begins with a protective soft start to ensure that the battery can really accept the impending charge. When charging is completed the charger analyses the battery again to verify that it can retain the energy that it has received, ie, that the battery is intact. The sequence then shifts fully automatically to CTEK's unique float/pulse maintenance charging. The charger can remain connected during long periods, which is ideal for seasonal vehicles.

- **Developed for severe conditions**

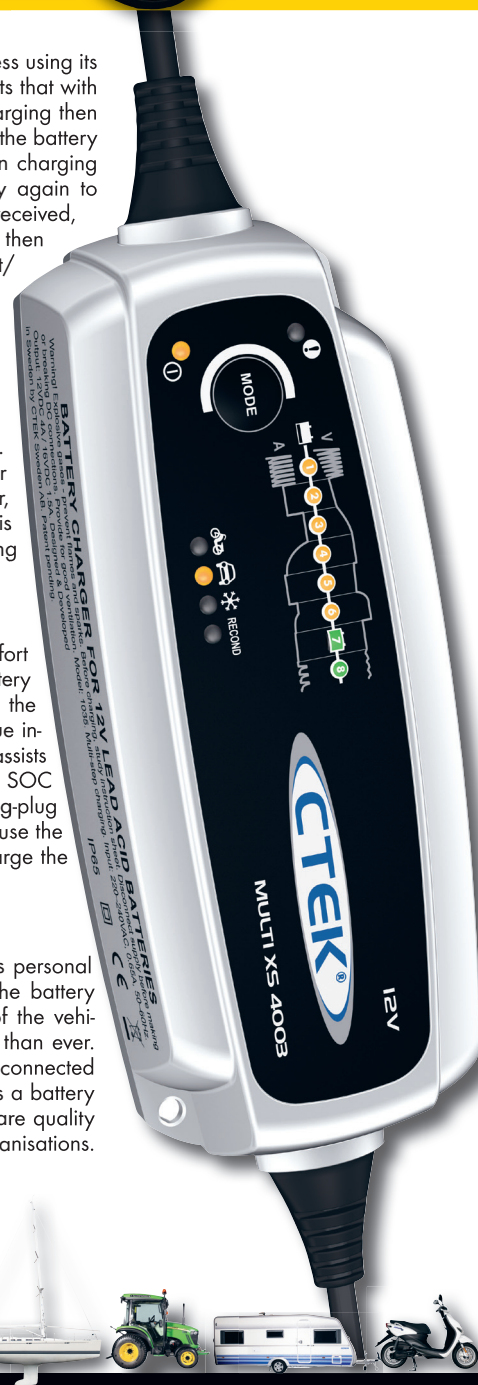
Great flexibility for different needs of charging, implying high demands on CTEK's chargers. MULTI XS 4003 is suitable and safe for outdoor use and operates superbly in almost any weather, temperatures and conditions. The charger is resistant to dust, dampness, spilled and splashing water, and general impact.

- **Smart accessories**

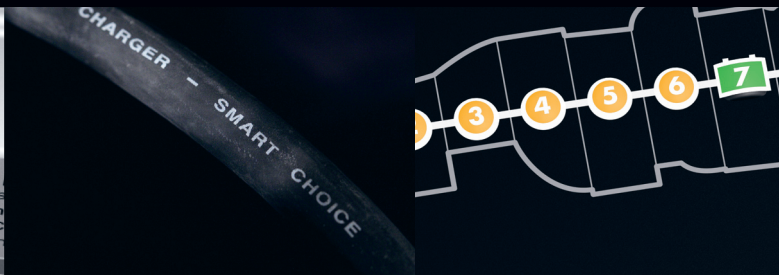
The packaging includes a quick-connector. Comfort Connect can remain permanently fitted to the battery to facilitate connecting and disconnecting of the charger. Comfort Connect also fits CTEK's unique indicator, Comfort Indicator (not included), which assists you in keeping a regular check of the battery's SOC (state of charge). For vehicles in which the cig-plug works when the engine is switched off you can use the Comfort Connect cig-plug (not included) to charge the battery, without lifting the engine hood.

- **Safety is most important for CTEK**

All CTEK products are designed with the user's personal safety in mind, but also to avoid damaging the battery and the computer and electronic equipment of the vehicle. MULTI XS 4003 has more safety features than ever. Through its software it always tests what it is connected to and switches off if it is not a battery, or if it is a battery that cannot accept charging. CTEK's products are quality assured and safety certified by independent organisations.

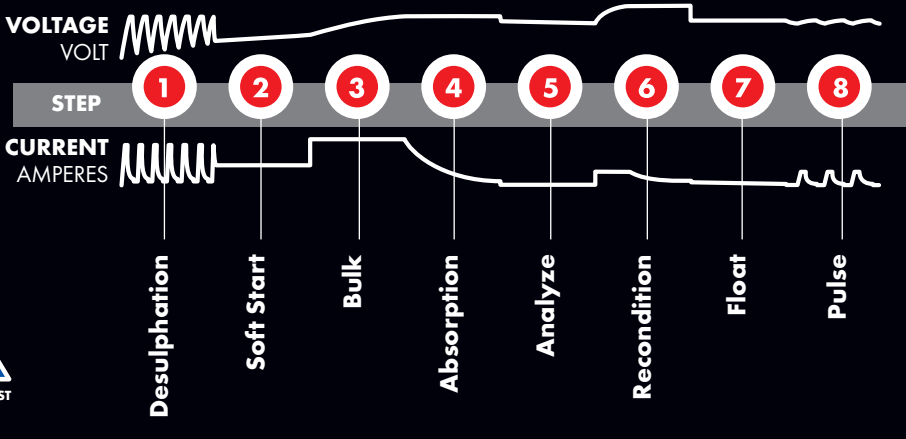


THE SMARTEST BATTERY CHARGERS IN THE WORLD



## MXS 4003

8 step



## Technical data – MXS 4003

Type of charger	Eight step, fully automatic charging cycle
Type of batteries	12V lead-acid batteries (Wet, MF, AGM and GEL)
Battery capacity	1,2–120Ah
Charging voltage	14,4/14,7/15,8V
Charging current	0,8/4,0A
Insulation	IP65 (Splash and dust proof)
Ambient temperature	-20 °C to +50 °C
Input voltage AC	220-240V AC, 50–60Hz
Back current drain *	< 1Ah/month
Ripple **	< 4%
Dimensions (L x W x H)	168x65x38mm
Weight	0,6kg



\*) 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.  
**MXS 4003 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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