

CTEK PROFESSIONAL MAINTENANCE CHARGING

SIMPLICITY – SAFETY – FLEXIBILITY

CTEK XT 14000

CTEK XT 14000 is a battery charger in a range of fully automatic primary-switched battery chargers with special solutions, developed for 24V batteries. The CTEK XT 14000 is designed for maintenance of vehicles which are stationary for long periods, such as tractors, cranes, commercial vehicles and large boats.



• **Fully automatic**

In contrast to traditional battery chargers, the CTEK XT 14000 has a fully automatic charging cycle. Using CTEK's own patented system for maintenance charging, batteries are charged up and maintained at full capacity (float) for 10 days. The charger will then switch automatically to pulse maintenance, which is the optimum setting for long-term maintenance of batteries, ensuring maximum service life.

• **Electronic protection**

Most modern vehicles are equipped with very sensitive electronic gear. In contrast to older and less sophisticated chargers, batteries do not have to be disconnected from the vehicle, as the CTEK XT 14000 is compatible with such modern systems, and is designed to not disturb sensitive electronic equipment.

• **Automatic desulphation**

Batteries which have been unused for long periods can lose capacity and service life due to sulphation. Sulphated batteries are also more difficult to charge. That's why the CTEK XT 14000 has a patented method which removes sulphate deposits using rapid pulses, allowing the battery to recover its power and extending service life.

• **Maintenance for professionals**

The list of vehicles with 24V batteries which are not used for long periods is extensive. The CTEK XT 14000 keeps batteries charged simply and easily during the periods they are not used, giving them more power during active periods when they are used intensively, and need quick recovery.

• **Designed for tough environments**

The CTEK XT 14000 is IP44 classified, which means it is approved for outdoor use. It will recharge equally well at -20°C as at $+50^{\circ}\text{C}$ thanks to its temperature sensor, which adapts the charge voltage to battery temperature. It is also extremely robust, making it easy to use in tough environments.

• **Safety at work**

Batteries can be started within minutes without damage and reduced service life, which can otherwise be a problem if using "start help" or jump start. All CTEK models are spark free, easy to connect and have short circuit protection, ensuring a safe working environment.



24V

14A

300W

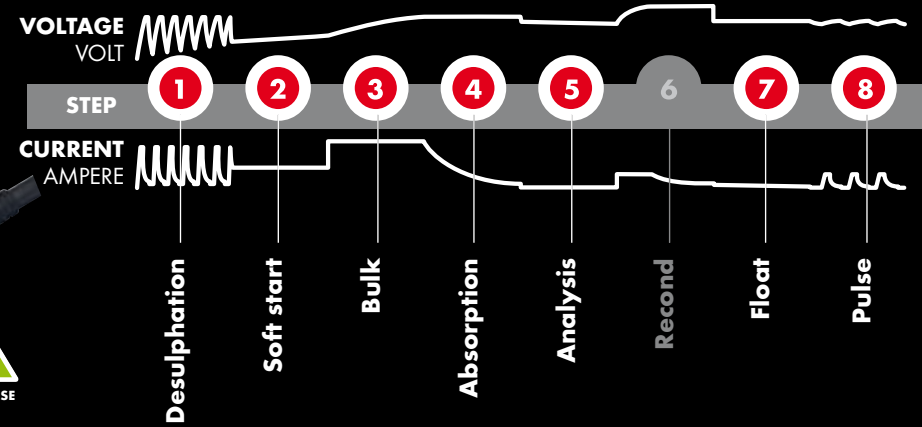
28–300Ah (charging)

28–500Ah (maintenance)

IP44



THE SMARTEST BATTERY CHARGERS IN THE WORLD



Technical data – XT 14000

Input voltage AC:	170-260V AC, 50-60Hz
Output voltage:	Nominal: 24V
Efficiency:	HIGH (85%)
Charging voltage:	28.8V, temperature compensated
Charging current:	14A max
Back current drain: *	< 2Ah per month
Ripple: **	< 4%
Ambient temperature:	-20°C to +50°C, output power automatically reduced at higher temperatures
Cooling:	Fan
Type of charger:	7-step, fully automatic, switch mode with float/pulse maintenance
Type of batteries:	24V lead acid batteries (Wet, MF, AGM, GEL and Calcium)
Battery capacity:	Charging: 28-300Ah, Maintenance: 28-500Ah
Dimensions (L x W x H):	235 x 130 x 65mm
Encapsulation class:	IP 44 (Outdoor use)

Weight: 1.8kg

*) Back current drain is the drain caused by the charger if not connected to mains electricity.
 **) Ripple denotes the amount of interference to current and voltage. A high current ripple heats the battery, reducing its service life. A linear charger has a current ripple of 70-400%, well over the 5% maximum for a modern sealed battery. Voltage ripple can harm other equipment connected to the battery.
IP 44 cannot be guaranteed unless positioned with top or long side upwards.
XT 14000 supplies voltage and current with a very low ripple. The battery gains a long service life, and there is no risk of other electronics connected to the battery.



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