

CS FREE

# MULTI-FUNCTIONAL PORTABLE CHARGER AND SMART MAINTAINER WITH ADAPTIVE BOOST TECHNOLOGY



**CTEK's CS FREE** is the world's first multi-functional portable battery charger and smart maintainer with Adaptive Boost technology.

You can charge and maintain any 12V lead acid or lithium battery anywhere using mains, solar or leisure battery power.

And if your battery's flat, CS FREE's revolutionary Adaptive Boost technology will work out the safest and quickest way to power up your battery to get you going within 15 minutes.

## **PORTABLE CHARGING WHEREVER YOU GO**

CS FREE gives you the freedom to charge and maintain any 12V lead acid or lithium battery wherever you are – even if you're nowhere near a power outlet.

Use it as a portable charger to top up your battery with mains power, or hook it up to a solar panel kit or 12V battery for complete charging freedom anywhere you go.

CS FREE also features our revolutionary Adaptive Boost technology so if your vehicle won't start, just connect it up and CS FREE will automatically analyse the state of your battery. It'll then work out the safest and quickest way to give it the power it needs to start your vehicle within 15 minutes.

Unlike most 'boosters', CS FREE is sensitive and safe, so it avoids damaging your battery or your vehicle's electronics by only giving it the charge it needs to get you going.

CS FREE is also a smart maintainer and hi-tech powerbank to keep your battery and tech powered up so they're always ready to go.

- Four cutting edge products in one portable unit – Adaptive Booster, battery charger, smart maintainer and hi-tech powerbank.
- Multi-functional portable charging and maintaining you can take anywhere without being tied to a power outlet
- Connects to mains power, or hooks up to a solar panel kit or 12V battery for complete charging freedom
- Adaptive Boost works out the safest way to power up your flat battery to get you going within 15 minutes
- Smart maintainer and hi-tech powerbank to keep your battery and tech in peak condition
- 2 year 'peace of mind' warranty

CS FREE



#### TECHNICAL DATA

INPUT	USB-C, 5 VDC – 25 VDC, 3 ADC/60 W max
OUTPUT	12 V, 20 A/240 W max
START VOLTAGE	3.0 V
AMBIENT OPERATING TEMPERATURE	-20 °C to +50 °C (- 4 °F to +122 °F)
AMBIENT STORAGE TEMPERATURE	-20 °C to +45 °C (- 4 °F to +113 °F)
BATTERY CHEMISTRY	Lead acid, Lithium
BATTERY TYPES	12 V: WET, MF, Ca/Ca, AGM, EFB, GEL, LiFePO <sub>4</sub>
BATTERY CAPACITY	10-130 Ah
DEGREE OF PROTECTION	IP54
WARRANTY	2 years
NET WEIGHT (UNIT WITH CABLES)	1.4 kg
DIMENSIONS (L x W x H)	248 x 98 x 78 mm
USB-A OUTPUT	5 VDC, 2.4 ADC/12 W max
USB-C OUTPUT	5 VDC, 9 VDC, 12 VDC, 15 VDC, 20 VDC, 3 ADC/60 W max

#### MAINS ADAPTER

INPUT	100 VAC – 240 VAC, 50 Hz – 60 Hz, 60 W max
OUTPUT	USB-C, 5 VDC – 20 VDC, 3 ADC, 60 W max
CABLE LENGTH	1 m
CABLE TYPE	USB-C

#### INTERNAL BATTERY

CAPACITY	66 Wh
CELL CHEMISTRY	Polymer Lithium-Ion
CELL TYPE	Pouch Cell
DISCHARGE TEMPERATURE	-20 °C to +50 °C (- 4 °F to +122 °F)
CHARGE TEMPERATURE	0 °C to +45 °C (32 °F to 113 °F)
SHELF LIFE	1 year
LIFE SPAN	300 cycles, 80%

#### GUARANTEED QUALITY WITH CTEK

CTEK customer support is available to answer any questions related to charging and CTEK chargers. Safety, simplicity and flexibility characterizes all products and solutions developed and sold by CTEK.

CTEK supply chargers to more than 70 countries throughout the world. CTEK is also a reliable OEM supplier to many of the world's most prestigious car and motorcycle manufacturers.

For more information visit  
[WWW.CTEK.COM](http://WWW.CTEK.COM)