

CS FREE

# PORTABLE 4-IN-1 CHARGER, MAINTAINER, ADAPTIVE BOOSTER & POWERBANK



The award-winning **CS FREE** is the world's first multi-functional, 4-in-1 portable battery charger, maintainer, adaptive booster and powerbank.

Charge and maintain any 12V lead acid or lithium (LiFePO4) battery anywhere using a power outlet, solar or leisure battery power. And if your battery's dead, CS FREE's revolutionary Adaptive Boost technology will work out the safest and quickest way to get you going again within 15 minutes

## CHARGE AT HOME OR OFF-GRID

Four cutting edge products in one portable unit

- **Battery charger:** use it as a portable charger to top off your battery, connect to a power outlet, or if you are off-grid hook up to a solar panel kit or 12V battery for complete charging freedom anywhere you go.
- **Smart maintainer:** keeps your battery in peak condition at home or off-grid.
- **Adaptive Boost:** works out the safest way to power up your dead battery to get you going within 15 minutes.
- **Hi tech powerbank:** tops up your laptops, smartphones, tablets and cameras whenever they need it.

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.

- Multi-functional 4-in-1 portable battery charger, maintainer, adaptive booster and powerbank
- Works with all types of 12V lead acid and lithium batteries
- Safely gets you going from a dead battery within 15 minutes
- Suitable for use on cars, leisure vehicles, vans, boats, motorcycles, jet-skis and much more!
- Can be powered by service battery or solar panel for complete off-grid charging.
- Don't forget it can also be hooked up to a power outlet too!
- Re-charge whilst on the move with 12V accessory socket
- Can be left safely connected to mains power, service battery or solar panel for smart maintenance charging
- USB-C and USB-A outputs for charging tech like laptops, smartphones and tablets
- Easy to use, easy to operate, easy to understand
- No modes to select – just connect and the CS FREE will do the rest
- Countdown function shows you how long there is left before your battery is fully charged
- 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%

#### GIVING A SAFE START

The CS FREE is an Adaptive Booster that will get you going from a dead battery within 15 minutes. It automatically analyzes the state of the battery and works out the safest way of giving it enough power to safely start the vehicle.

Unlike most boosters or jump starters, the CS FREE is sensitive to the state of the battery and only gives it the charge it needs to get you started - so it's completely safe for your battery and your sensitive vehicle electronics.

#### 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)

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