



CHARGE CUBE

THE COMPACT, EFFICIENT STARTER
BATTERY CHARGING DEVICE

THE CHARGE CUBE IS AVAILABLE IN VERSIONS OF 40 AMPERES AND 100 AMPERES

The Charge Cube **high-frequency battery charger** is designed as a broadband network input device and can be **operated worldwide without national variations in all power grids.**

With its performance of 40 or 100 amperes rated current and easily-understandable, sequence-animated operator guidance we have created a new generation of devices which are made to meet today's requirements on a battery charger for vehicle servicing. The Charge Cube **completely complies with the VW Usage Specifications for workshop chargers in terms of its technical design** and offers you an automatic IU characteristic curve in addition to the **highest efficiency class with a power factor of 0.99** for energy-saving operation.



Product information

- robust steel housing with soft rubber edge protection to avoid vehicle damage
- self-explanatory menu guidance using colour display
- automatic detection of vehicle voltage
- pluggable mains and charging cables
- suitable for batteries of 3 to 300 Ah, adjustable via capacity selection
- permanent charging capacity: 40 or 100 amperes at 14.8 volts
- cooling using temperature-regulated fan
- charging cable in metal with fully-insulated charging clamps via safety HV plug

The most modern-available inverter technology ensures **economic and super-quick power processes** which provide all the current and voltage requirements to the on-board electrical system safely and matching its needs. In order to guarantee application stability for future requirements on functions, the Charge Cube **can be updated via a data interface in terms of functions** and is therefore fitted out for additional hardware requirements.



A **robust steel housing** with an effective **soft rubber edge protection** guarantees **operational safety even under the hardest conditions of use** and guarantees effective protection against vehicle damage or damage to the device itself. Pluggable mains and charging cable provide safe handling during use and storage.



Charge Cube 40

Charge Cube 100

Technical data Charge Cube 40

- Charging voltage range: 12 V nominal (1 – 17 VDC)
- Rated output current: 40 A
- Operating modes: charging, refreshing, standby, power supply operation, power input check.
- Characteristic curves: IU₀U, IU₁U, IU, U const.
- Battery compatibility: Wet lead-acid batteries, AGM, EFB, EFB+, GEL, lithium-ion
- Mains input voltage: 90 – 265 V AC 50 – 60 Hz
- Input current consumption: 2.9 A at 230 V, 5.8 A at 115 V (at full load operation)
- Mains cable for EU (earthed plug) 3.0 m long
- TWINFLEX 2 x 10 mm² charging cable 5.0 m long
- Protection Class: IP21D
- Dimensions and weight: W 285 x H 265 x D 115 mm, approx. 4.7 kg

Technical data Charge Cube 100

- Charging voltage range: 12 V nominal (1 – 17 VDC)
- Rated output current: 100 A
- Operating modes: charging, refreshing, standby, power supply operation, power input check.
- Characteristic curves: IU₀U, IU₁U, IU, U const.
- Battery compatibility: Wet lead-acid batteries, AGM, EFB, EFB+, GEL, lithium-ion
- Mains input voltage: 90 – 265 V AC 50 – 60 Hz
- Input current consumption: 5.8 A at 230 V, 11.6 A at 115 V (at full load operation)
- Mains cable for EU (earthed plug) 3.0 m long
- TWINFLEX 2 x 16 mm² charging cable 5.0 m long
- Protection Class: IP21D
- Dimensions and weight: W 345 x H 265 x D 115 mm, approx. 6.15 kg

CHARGE CUBE – INNOVATIVE, VALUABLE, ROBUST



The Charge Cube has been specially designed for daily use in or the mobile workshops. Thanks to its resistant and hard-wearing steel housing, the soft rubber edge protection and the pluggable connections, this device has been designed for maximum ruggedness. Thanks to high-quality and resilient components, your investment in this device pays itself back thanks to a long service life under the hardest working conditions which, thanks to update-capable firmware, offers the highest-possible operational safety even for future battery generations and changing requirements on quality assurance.



Safety functions

- Short-circuit and reverse polarity protection
- Soft start without spark formation
- Safety switch-off for defective batteries

Guarantee: 24 months

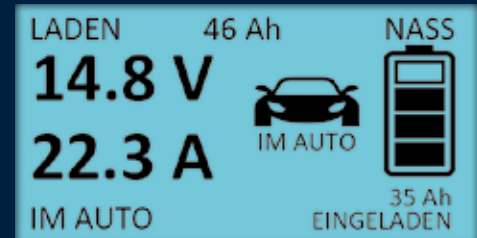
Item number Charge Cube 40: A003494

Item number Charge Cube 100: A004624

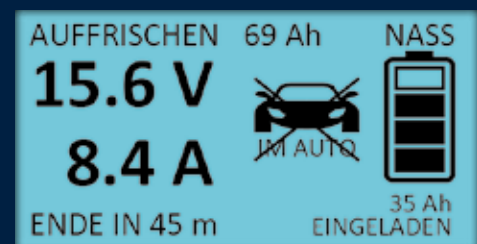
Manufacturer: akkuteam Energietechnik GmbH

OPERATING MODES

IDENTICAL FOR CHARGE CUBE 40 AND CHARGE CUBE 100



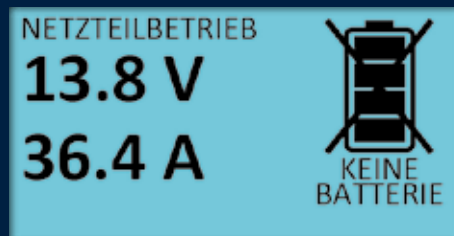
Charging batteries up to maximum 14.8 V and 40 A (100 A for Charge Cube 100) inside or outside the vehicle with subsequent charge retention. Preselection of battery capacity and construction type. Permanent display of charging sequence, operating mode and electrical values.



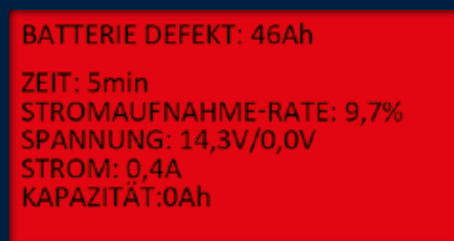
Refresh-charging of deep-discharged or sulphated batteries outside the on-board electrical system up to maximum 16 V and 40 A (100 A for Charge Cube 100). Preselection of battery capacity and construction type. Permanent display of charging sequence, operating mode and electrical values.



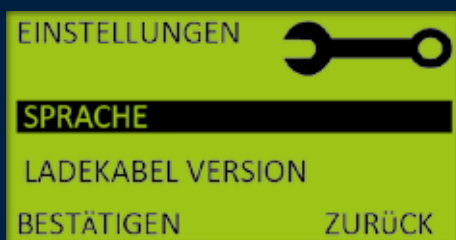
Standby mode in on-board electrical system with installed battery during diagnosis or software update and switched-on computers up to max. 13.8 V and 40 A (100 A for Charge Cube 100). Permanent display of charging sequence, operating mode and electrical values.



Power supply operation for power supply to the vehicle during repair work when the battery has been removed or during battery changeover at 13.8 V and max. 40 A (100 A for Charge Cube 100). Manual program start with safety query. Permanent display of charging sequence, operating mode and electrical values.



Power input check for checking the charging capability of a deep-discharged battery within just a few minutes. With error check and evaluation. The outline conditions of the power input check are orientated on the specifications in the VW Group Test Instructions.



The **Settings** offer the following personalisation facilities:

- Language selection for display presentation
- Configuration of cable length and cross-section
- Information on current device firmware version
- Switch signal encoder on and off
- Switch showroom mode permanently on and off
- Switch standby mode permanently on and off



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