



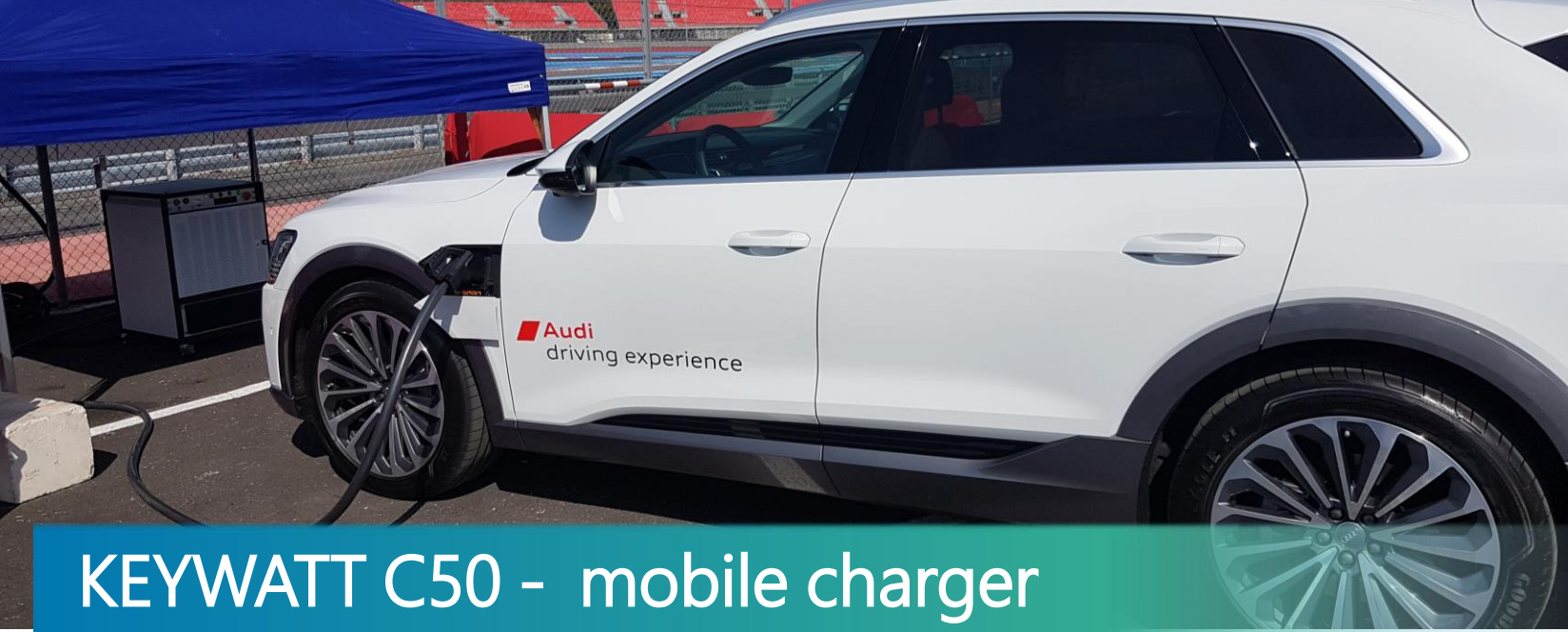
Beyond Charging

Fast charging station

# KEYWATT 50 - Cube



FOR WORKSHOP / FACTORY / R&D



# KEYWATT C50 - mobile charger



## Overview

- > 50kW (Cube) DC universal charger Movable (on wheels)
- > All cables interchangeable via Harting connector
- > No installation required
- > Easy connection to power networks
- > 4 LEDs + VFD display for charge monitoring
- > Ethernet, USB and CAN connectors
- > Easy selection of EV charging protocol



Fast charging



Easily Movable



Interchangeable Cables



Installation free



Easily upgradeable

## Available charging protocols



Combo 1   Combo 2   CHAdeMO   GB/T  
(Cube CE only)

## Main features

Easy to move, easy to connect, the Cube solutions are perfect for daily use in changing environments. Thanks to their Harting connector, their protocol cable can be changed in a matter of minutes, from Combo to CHAdeMO to GB/T interfaces (for CE Cube).

Built from years of experience of IES mastering EV protocols, they provide a solid solution for testing new EV cars in development at car manufacturers. Dependable, they are also used to charge batteries at end of EV manufacturing lines. Easily connected to AC Mains without complex installation, they are also well suited for use at car dealerships and service centers.

## Main applications

- > Car OEM R&D Labs
- > EV Manufacturing Lines
- > Car Dealerships
- > Car Service Centers



# Cube 50 kW

## INPUT

Voltage :  
CE / 400VAC +/-10% 50/60Hz 3 Phase (3P + Ground)  
UL / 480VAC +/-10% 50/60Hz 3 Phase (3P + Ground)  
Nominal input current : 80 A at 400VAC (CE)  
70A at 440VAC (UL)

Power factor : > 0,93

Efficiency : 94%

## OUTPUT

Voltage: 200VDC to 500VDC

Current: 5 to 125 A (CE version) / 5 to 100 A (UL version)

Max output power: 50kW

COMBO (1 or 2), CHAdeMO or GB/T (for CE Cube only)

Cable length: 6 meters (GB 5 meters)

## USER INTERFACE

2 x 20 characters VFD display

Start / Stop buttons with LED indicators

## MECHANICAL FEATURES

Dimensions: H 927 x l 730 x W 702

Weight: 150kg

IP level: IP21 (indoor use only)

## HARDWARE PROTECTIONS

Circuit breaker + Emergency button

Short-circuit, overvoltage/temperature, reverse polarity

High frequency isolation transformer

## OPERATING TEMPERATURE

Temperature: -20°C to +40°C (derating above +30°C)

Relative Humidity: 10% to 95%

## Communication

### Multistandard vehicle interface:

- CAN (CHAdeMO and GB standards)
- PLC GreenPhy / Control Pilot (COMBO)

### Supervision capability:

- Software updating capability
- RS232
- LAN/TCP-IP / USB on request

## Standard compliance

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- UL2022 / UL2231-1/2 (for UL Cube)
- CAN/CSA C22.2 (for UL Cube)
- Charge DIN70121 / New GB/T 2015 (for CE Cube)



Car OEM R&D Labs



EV Manufacturing Lines



Car Service Centers



Car Dealerships