

# KEYWATT 50 Multi-Standard Station



## Overview

- > Universal Multi-Standard 50 kW Charging Station for EVs
- > Combo 2 and/or CHAdeMO and/or AC Type 2 (22kW or 43kW optional)
- > Simultaneous charge AC and DC
- > KEYWATT hermetic design, without air filter and low maintenance
- > Easy installation and implementation into public places
- > Dual modem for operation & maintenance supervision
- > 7" Touch screen display
- > Remote & smart power management via OCPP 1.6 or Ethernet
- > Easy customization (Front Panel sticker + Menu Graphics)



Robust &  
Field Proven



Low Cost of  
Ownership



Easy  
Installation



Easy  
Services



Easy  
Customization

## Available charging protocols



Combo 1/2



CHAdeMO



AC Type 2  
22 kW (43 kW optional)

## Main features

With a delivered power of 50 kW (in DC) or 22/43 kW (in AC), the new KEYWATT 50 Station will charge all EVs on the market in 30 min typically. Two charging points are available thanks to the simultaneous charge capability. Based on the KEYWATT™ hermetic design without air filter, maintenance needs are greatly reduced and service continuity optimized. Connected to a centralized network by wire or through air via OCPP1.6, the delivered output power can be adjusted on-line for smart charging.

## Main applications

- > Destination charging
- > EV infrastructure and Operators
- > Public Stations
- > Service Providers
- > Car Dealerships

### INPUT

Voltage : 400 VAC +/-10% 50/60Hz 3 Phase (3P + N + Ground)

Nominal input current: 83 A

Power factor: > 0,98

Efficiency: 94%

### OUTPUT

Voltage : 200 VDC to 500 VDC

Current: 1,5 to 125 A

Max output power : DC 50 kW , AC 22kW (43kW option)

### HARDWARE PROTECTIONS

Input fuses on each module

Output diode and fuse on power module

Fast acting fuses on output

AC input and DC output relays

### ELECTRONIC PROTECTIONS

Overload and output short-circuit

Over temperature and temperature regulation

Output over voltage / reverse polarity

Charging plug defects / Communication failure

Insulation monitor device on DC output

### COMMUNICATION BUS

COMBO 2 and/or CHAdeMO and/or AC Type 2

AC Type 2 – 22 kW T2S or 43kW Cable (optional)

Cable length : 4 meters (DC), 5 meters (AC 43kW)

### CARACTERISTIQUES MECANIKUES

Dimensions : H 1,800 x L 600 x l 814

Weight: 350 kg

IP level: 55 / Shock resistance: IK10 (Screen IK08)

### OPERATING TEMPERATURE

Temperature: -25°C to +50°C (derating above 35°C)

Relative Humidity: 10% to 90%

## Communication & Functions

#### Vehicle Interface:

- CAN (CHAdeMO / GB)
- PLC GreenPhy (COMBO & AC)

#### Supervision capability:

- Wireless: 3G/4G via OCPP1.6
- LAN/TCP-IP

#### Access & identification:

- RFID reader (MyFare + Calypso)

#### Functions:

- Dynamic Power Allocation & Profile
- Reservation
- Simultaneous AC+DC Charging

## Configuration & options

#### Display & Communication module:

- 7 inch touch screen
- User Menu with adjustable wallpaper graphics
- OCPP1.6 card (JSON or SOAP), 2 separate modems
- Ethernet connection
- LED Indicators (RGB) for each output

#### Presentation:

- IES standard front panel
- White label available on request (sticker)

#### Output options:

- Single Output: Combo 2
- Dual Output DC: Combo 2 + CHAdeMO
- Multi Output: Combo 2 + CHAdeMO + AC 22 kW (or AC 43kW optional)

## Standard compliance

- Directive RED 2014/53/EU
- Directive EMC 2014/30/EU
- Directive LVD 2014/35/EU
- Charge: DIN70121
- Compatibility E.V. Ready



Shopping Centers



Restaurants



Parking Lots



Public Stations



Car Dealerships