



Beyond Charging

Fast charging station

STATIONS - KEYWATT 50 kW



CHARGES IN DEPOT

DC CHARGING STATION

Universal, compact,
with Smart Charging function

Connectivity

Operator back-end, supervision,
maintenance and firmware update
/ OCPP 1.6
Component accessibility
Dual modem / Ethernet

Robust

Hermetic design with minimum
maintenance adapted in external
conditions

CCS, Combo...

Interoperable station
Tested by many bus
OEM

SMART software suite

Dynamic power
management « Smart
Charging »
The power of each station
can be adjusted in real time
for smart energy
management

+ Services

- Extended warranty,
- Configuration,
- Commissioning,
- Maintenance contracts, Training



Customisation
You can customize the
design of your charging
station (sticker, socket,
implementation of you logo
on the software...)

Compact solution
Small footprint

i Optimized operating cost

Long service life, no filter change thanks to our
technology



STATION - KEYWATT 50 for eBus



Overview

- > Interoperable Combo2 station for eBuses
- > Optimized low surface footprint for easy installation in depot
- > Compatible with installation against walls
- > Wide output voltage range: from 400V to 800V DC
- > IP55 for outdoor use
- > Low-maintenance cooling system without air filter
- > 7" Touch screen display, 5 LEDs & ON/OFF buttons
- > Remote & smart power management via OCPP 1.6
- > Other version 100kW available



Interoperable
Station



High
Performances



Low Surface
footprint



Low
Maintenance



Smart
Charging

Available charging protocols



Combo 2

Main features

With an optimized surface footprint, the new IES station for eBus has been designed for perfect use in depot environment (installation against walls, adjustable cable outlet). Thanks to the KEYWATT™ 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. Extended power charging station to 100 kW is available for maximum flexibility un depot.

Main applications

- > Bus depot
- > Truck fleet

INPUT

Voltage : 400VAC 50Hz 3 Phase (3P + N + Ground)

Nominal input current: 80A

Power factor: > 0,98

Efficiency: 93%

OUTPUT

Voltage: 400V to 800VDC

Current: 3 to 75A

Max output power: 50 kW

INSULATION

Input / Output: 3500VDC

Input / PE: 2500VAC

Output / PE: 2000VDC

HARDWARE PROTECTIONS

Circuit breaker 125A (+ external RCD needed)

Output diode on power module

Fast acting fuses on output

AC input and DC output relays

ELECTRONIC PROTECTION

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 Compatible: DIN70121

OPERATING TEMPERATURE

Temperature: -25°C to +50°C (derating above +30°C)

Relative Humidity: 10% to 95%

MECHANICAL FEATURES

Dimensions: H 2m x L 0,70m x W 0,52m

DC Cable length: 4 or 7 meters

Index Protection: IP55

Weight: 320 kg

Communication

Vehicle interface:

- CCS Combo 2 Protocol

Supervision:

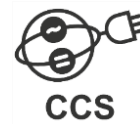
- Connectivity: Ethernet or 3G/4G
- Protocol: OCPP1.6 (SOAP or JSON)
- Smart charging OCCP functions (Dynamic Power Management, Profiles...)

Access & Identification:

- Touchscreen 7"
- ON/OFF buttons
- 5 Status LEDs

Standard compliance

- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- WEEE Directive 2012/19/EU
- Charge DIN70121



For all eBus types



For use in depot