



Beyond Charging

Fast charging station

NEW

KEYWATT® S180

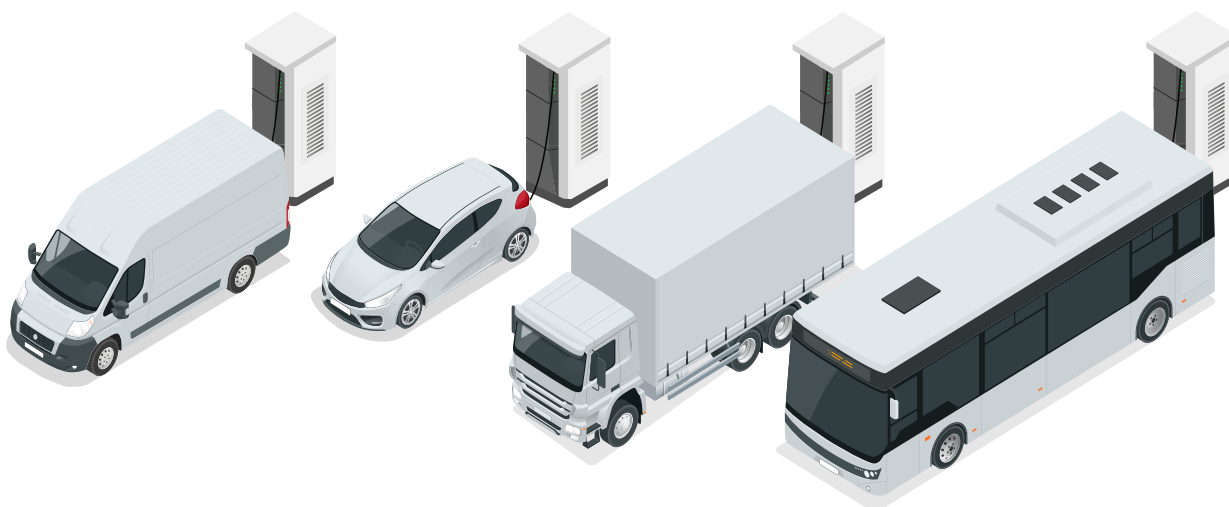


ULTRA FAST CHARGE UP TO 180 KW



www.ies-synergy.com

KEYWATT® S180



Designed and
assembled
in France

Features



- Fast charging (DC) 180 kW, 2x90 kW DC simultaneously
- Extended voltage range to address the needs of different electric vehicles and prepare for the future
- Two Combo 2 cables of over 3 m for comfortable reach
- Modular design for a shorter intervention time when in service
- Double modem station to ensure device availability and facilitate remote troubleshooting
- Software suite and 7" touch screen common to all our DC KEYWATT® charging stations



High
power



Low
operating
costs



Easy
installation

Overview

The KEYWATT® S180 may be used by most light vehicles in the market for charging to their maximum power within 10 to 40 minutes depending on the vehicle and its charging needs. With simultaneous charging, it addresses the need for charging with 90 kW DC. Its extended voltage range allows it to charge all electric vehicles in the market (heavy vehicles, utility vehicles or light vehicles).

Its modular architecture is designed to allow easier maintenance and management of spare parts. Its software platform is common to our other charging stations.



KEYWATT®
services



Ready for
the future

DC CHARGING STATION

Modular, compact, simultaneous DC/DC charging



Certified DC meters

Compliant with European legislation

Rackable modules

Easily maintainable in the field by a single operator

Payment terminal

Offering additional payment method

Single connection

For fast installation and low overall deployment costs

SMART software shared with all our KEYWATT® charging stations

Smart charging, vehicle detection, remote reservation, power modulation, charge profile etc., all natively with OCPP protocol

Compatible with heavy or light vehicles

Extended voltage range: 200 to 1000 V

Simultaneous charging DC/DC

180 kW or twice 90 kW simultaneously

PRM accessibility

Suitable for public car parks and streets

Ruggedness

To keep the technology inside it protected



CUSTOMISATION

You could personalise the design of your charging station (colour of front panel, sticker, logo on user interface screen etc.)



SOFTWARE

Smartcharging OCPP
Reservation OCPP
Plug & Charge
Autocharge

Images not contractual, for mood only

INPUT

Voltage: 380V-400 VAC 50 Hz three phase
(3 P + N + Earth)

Nominal input current: 280 A

Efficiency: 94 %

OUTPUT

200 - 1000 VDC at 1 - 390 A

Power (DC): 180 kW
(or 90 kW simultaneously)

Redundant power conversion

EQUIPMENT PROTECTION

One thermal magnetic circuit breaker and RCD's
per charging point

Output diode on each power module

Fast acting fuses on each DC output

AC input relay and DC output relay

OPERATING TEMPERATURE

Temperature: -25°C to +50°C

Relative humidity: 10% to 95%

COMMUNICATION

3G/4G double Modem

RJ45 connection

Communication protocol (vehicule/station):

CCS2* (2 connectors, 2 charging points)

Supervision capability:

OCPP 1.6 compatible

Ethernet or 3G/4G modem

Access & identification:

RFID reader (ISO 14443)

7" HD colour touch screen

18 languages

Functions:

Smart charging (dynamic programmable power
management by charging profile)

Remote reservation

Charge by vehicle authentication (Autocharge)

COMPLIANCE WITH STANDARDS

RED directive 2014/53/EU

EMC Directive 2014/30/EU

LVD directive 2014/35/EU

Charge DIN70121 / ISO 15118

ELECTRONIC PROTECTION

Short circuit and overcharge

Temperature control

Output voltage surge/polarity inversion

Input voltage fault/Communication fault

Isolation surveillance device on DC output

STANDARD AVAILABLE

Combo 2*

Cable length: 3.15 m*

MECHANICAL CHARACTERISTICS

H 2000 x L 870 x W890 (base: L 815 x W750 or 0.61 m²)

570 kg

IP55, IK10 (screen IK08)

CONFIGURATION & OPTIONS

Modularity and options:

- Optional DC meter, visible from the outside
- Optional detection loops
- Payment terminal as standard, may be enabled in the factory or in the field, even after the station is put into service
- Optional private HMI*
- The product is open to development during operation (power, features, changing regulations etc.)
- Common platform with other Keywatt® models to come

Standard equipment configuration:

Three-colour (RGB) LED display for each output

Customisation :

- In the factory, configuration of the station for the operator (supervision, SIM card) via Toolbox
- Customisable logo on 7" touch screen
- Grey front, remainder in white, IES Synergy standard, customisable on request (sticker)
- Customisable sticker (vector file in .ai/.svg/.dwg format supplied by the customer)



Motorway rest
stops



Public car
parks



Bus
depots



Logistics
Centres

www.ies-synergy.com

* Please enquire if standard or different cable length, or for details about the private HMI