

Fast charging station
KEYWATT® S120

NEW!



KEYWATT® S120



Overview



- Fast charging (DC) 120 kW, 2x60 kW DC simultaneously
- Extended voltage range to charge all types of electric vehicles and prepare for the future
- 1 or 2 Combo 2 cables of 3.15m, 5.50m, or 9.50m for comfortable reach
- Modular design for reduced intervention time during operation
- Dual-modem terminal for optimal service quality and facilitated remote diagnostics
- Common software suite and 7" touchscreen shared with all our DC KEYWATT® terminals.



High Power



Low operating cost



Easy installation

Features

The KEYWATT® S120 enables a large majority of light vehicles on the market to charge at their maximum power, allowing for a charging time of 20 to 60 minutes depending on the vehicle and charging needs. In the case of simultaneous charging, it addresses the fast charging need at 60 kW DC. Its extended voltage range allows for the charging of all electric vehicles on the market (heavy-duty vehicles, utility vehicles, or light vehicles). Its modular architecture facilitates maintenance and spare parts management. Its software platform is shared with our other charging stations.



KEYWATT® Services



Interoperability and adaptability

DC CHARGING STATION

Modular, compact, simultaneous DC/DC charging



Certified DC meters (optional)

Compliant with European legislation

Rackable modules

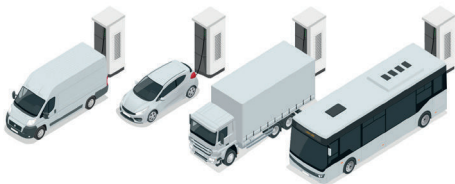
Quickly maintainable on-site by a single operator

RFID reader and Emergency stop button

Version with optional Payment Terminal

Single connection

For quick installation and overall cost-effective deployment



SMART software common to all our KEYWATT® terminals

Smart charging, vehicle detection, remote reservation, power modulation, charging profiles... all natively under the OCPP protocol.

Compatible with heavy-duty or light-duty vehicles.

An extended voltage range: 200 – 1000 V

Simultaneous DC/DC charging

120 kW or 2x60 kW simultaneously

PRM

Suited for public parking lots and roadways

Robust

To protect the internal technology



MULTIPLE OUTPUT POWERS

The S120 station is available in 120 kW, as well as in 180 kW (S180), 150 kW (S150), 90kW (S90) and 60kW (S60)



CUSTOMIZATION

You can customize the design of your charging station (front panel color, sticker, logo on the touchscreen interface...)

INPUT

Voltage: 400V +/-10% 50Hz
Nominal Current: 186A
Maximum Current: 207A
Power Factor: >0.99

OUTPUT

Voltage: 200 - 1000 VDC
Current: 1 - 260A
Power (DC): 120 kW (or 60 kW simultaneously)
Power conversion redundancy

EQUIPMENT PROTECTION

1 Magneto-thermal circuit breaker and differential protection 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

Dual 3G/4G Modem
RJ45 Connection

Communication protocol (vehicle/charging station):
CCS2 (2 connectors, 2 charging points)

Supervision capacity :
Compatible with OCPP 1.6
Ethernet or 3G/4G modem

Access & identification
RFID reader (ISO 14443)
7" HD touchscreen color display
24 available languages

Functions :
Smart charging (dynamic and programmable power management by charging profile)
Remote reservation
Vehicle authentication charging (Autocharge)

COMPLIANCE WITH STANDARDS

RED Directive 2014/53/EU
EMC Directive 2014/30/EU
LVD Directive 2014/35/EU
DIN70121 / ISO 15118 Charging

ELECTRONIC PROTECTION

Short circuit and overload protection
Temperature control
Output overvoltage / Reverse polarity
Input voltage fault / Communication failure
Insulation monitoring device on DC output

AVAILABLE STANDARD

Combo 2 (1 or 2 cables)
Cable length 3m15, 5m50, or 9m50

MECHANICAL FEATURES

H 2,000 x W 870 x D 890 (base: W 815 x D 750, thus 0.61 m²) 540 kg
IP55, IK10 (screen IK08)

CONFIGURATION & OPTIONS

Modularity and options :
Optional DC meter, visible from the outside
Optional detection loops
Optional payment terminal (with this option, the emergency stop button is removed)
Product scalability planned during operation (power, features, regulatory evolution...)
A common platform with other upcoming KEYWATT® models
Cable management for configurations with 5m50 and 9m50 cables
Mounting plate to simplify installation

Standard hardware configuration
LED display with 3 colors (RGB) for each output

Customization:
At the factory, configuration of the charging station by the operator (supervision, SIM card) via Toolbox
Customizable logo on the 7" touchscreen
Front panel customizable with stickers (file provided by the client)
Possibility to change the color of the charging station



For all types of electric buses



For all types of electric trucks



For use in depots



For highway use



For public parking lots