

KEYWATT® S180

FAST CHARGING STATION

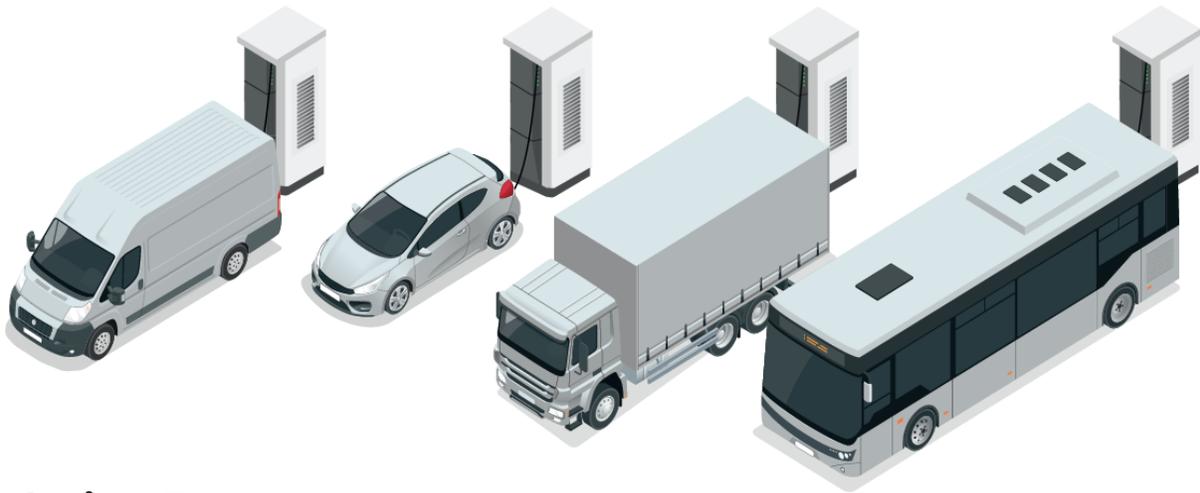


Overview

Bectrol partners with IES Synergy to introduce the Keywatt S180, a cutting-edge fast-charging product. Originally designed in France, our team has tailored it to North American standards and conditions, proudly manufacturing it in Canada. Discover a product that embodies the synergy of European innovation and Canadian expertise, redefining fast charging on the continent.

KEYWATT® S120 / S150 / S180

Ultra Fast Charging - Up to 180 kW



Ideal Solution For

- Vehicle Fleet
- Rest Area
- Retail Business
- Gas Station
- Logistic Center

Features

- Fast charging (DC) 120 kW / 150 kW / 180 kW
- Voltage range from 200-1000 VDC to address the needs of different electric vehicles and prepare for the future
- Two CCS-1 cables with a standard length of 5.5 meters (18 feet), with the option of 6 or 7 meters (19.7 or 23 feet)
- Modular design for shorter maintenance time when in service
- Double modem station to ensure device availability and facilitate remote troubleshooting
- Software suite and 7" touch screen standard on all our DC KEYWATT® charging stations



DC CHARGING STATION

Modular, Compact, Simultaneous Charging

Remote Monitoring

Includes KCS remote monitoring exclusive to Keywatt stations

Optional

Certified DC meters

Compliant with North American legislation

Rackable modules

Easily maintainable in the field by a single operator

ADA accessibility

Suitable for public car parks and streets

Quality components

Built with IES-developed and manufactured components, ensuring complete control over the production chain



SMART software shared with every KEYWATT® charging stations

Smart charging, vehicle detection, 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

Simultaneous charge of up to 90 kW per connector

Single connection

For fast installation and low overall deployment costs

Ruggedness

To protect the technology inside



CUSTOMIZATION

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

INPUT

Voltage: 480 Vac 60 Hz 3-Phase \pm 10%
(3 P + Neutral + Ground)
Nominal input current: 235 A
Efficiency: 94 %

OUTPUT

200 - 1000 VDC
Current: 1 to 390 A
Power (DC): 120 to 180 kW
(or 60 to 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 / -22°F to 122°F
-40°C / -40°F in progress
Relative humidity: 10% to 95%

COMMUNICATION

Double modem 3G/4G
Ethernet via RJ45

Communication protocol (vehicle/station)
CCS-1 (2 connectors, 2 charging points)

Monitoring capability

OCPP 1.6 compatible
OCPP 2.0 in development
Ethernet or 3G/4G modem

Access & identification

RFID reader (ISO 14443)
17,8 cm / 7" HD color touch screen
21 languages

Functions

Smart charging (dynamic
programmable power management
by charging profile)
Charge by vehicle authentication
(Autocharge)

Standard equipment configuration

Three colour (RGB) LED status display
for each output

ELECTRONIC PROTECTION

Short circuit and overcharge
Temperature control
Output voltage surge/polarity inversion
Input voltage fault/Communication fault
Isolation monitoring device on DC output

STANDARD AVAILABLE

CCS-1
Standard cable length: 5.5 m / 18 ft.
Options for 6 m. or 7 m. / 19.7 ft. or 23 ft.

MECHANICAL CHARACTERISTICS

Dimensions

H 2000 mm x L 870 mm x W 890 mm /
H 78,75" x L 34,25" x W 35,04"

Base: L 815 mm x W 750 mm (0,61 m²) /
L 32,1" x W 29,5" (24 in.²)

Weight

570 kg / 1 257 lbs

Environmental protection

IP55, IK10 (screen IK08)

CONFIGURATION & OPTIONS

Modularity and options

- Optional DC meter, visible from the outside
- Optional detection loops
- Optional private HMI
- Product that evolves over time (power, features, regulations, etc.)
- Common platform with other Keywatt® models to come

Customization

- In the factory, configuration of the station for the operator (monitoring, SIM card) via Toolbox
- Customizable logo on 7" touch screen
- Customizable sticker (vector file in .ai/.svg/.dwg format supplied by the customer)

COMPLIANCE WITH STANDARDS

Special Evaluation SPE-1000
cULus In Progress

