

# KEYWATT® S180 FAST CHARGING STATION

Specially adapted  
for our conditions



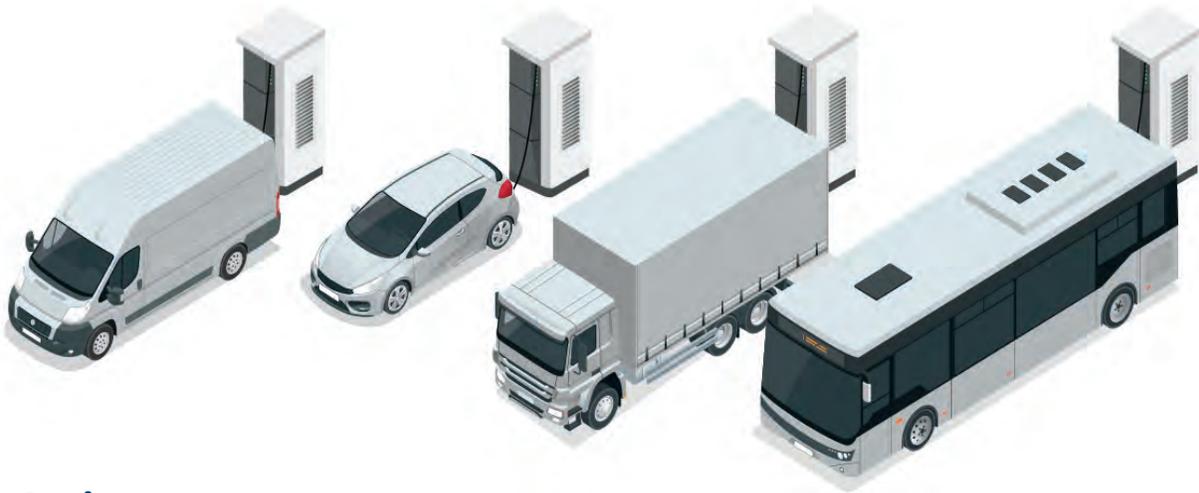
 **Bectrol**

## 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 Charge 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 or
- Voltage range of 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 ft.), with the option of 6 or 7 meters (19.7 or 23 ft.)
- 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



# 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

*Optional*

## Payment terminal

Offering additional payment method including Payton

## Single connection

For fast installation and low overall deployment costs

## 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

## ADA 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

## INPUT

Voltage: 480 Vac 60 Hz 3-Phase  
(3 P + N + Earth)  
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 / -13°F to 122°F  
Relative humidity: 10% to 95%

## COMMUNICATION

Double modem 3G/4G  
Ethernet via RJ45

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

### Supervision capability

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

### Acces & identification

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

### Functions

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

### Standard equipment configuration

Three colour (RGB) LED display for each  
output

## 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

CCS-1  
Standard cable length: 5.5 m / 18 ft.  
Option 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 m<sup>2</sup>) /  
L 32,1" x W 29,5" (24 in.<sup>2</sup>)

### Weight

570 kg / 1 257 lbs

### Environmental protection

IP55, IK10 (écran IK08)

## CONFIGURATION & OPTIONS

### Modularity and options

- Optional DC meter, visible from the outside
- Optional detection loops
- Payment terminal as standard, may be enabled at the factory or in the field, even after the station is put into service
- Optional private HMI
- Product that evolves over time (power, features, regulations, etc.)
- Common platform with other Keywatt® models to come

### 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)

## COMPLIANCE WITH STANDARDS

Special Evaluation SPE-1000  
Charge DIN70121 / ISO 15118

