

KEYWATT® S180

FAST CHARGING STATION

Specially adapted
for our conditions



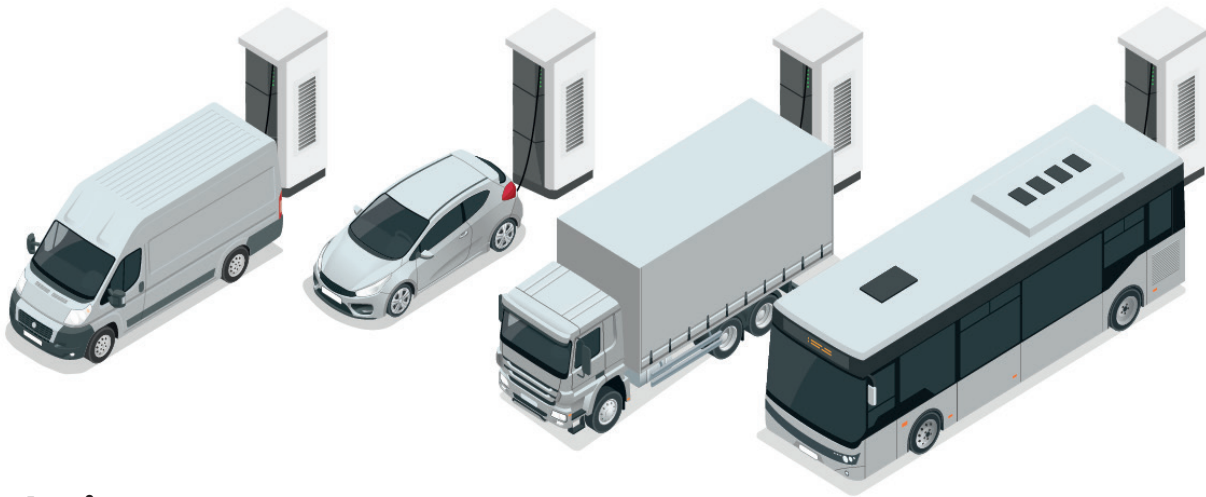
 **Bectrol**

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

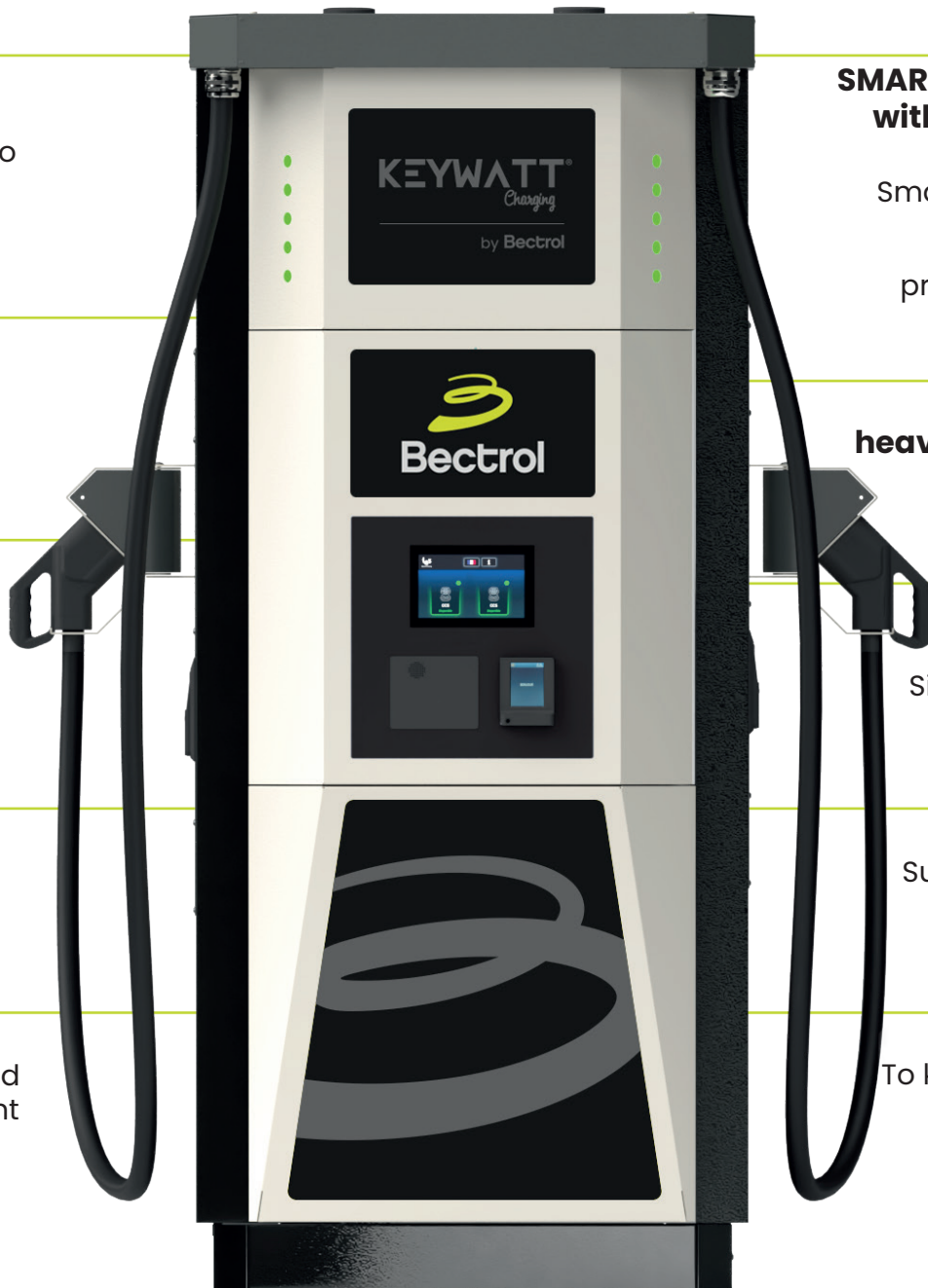
Simultaneous charge of up to 90 kW per connector

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 \pm 10%
(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 m²) /
L 32,1" x W 29,5" (24 in.²)

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
- Customisable sticker (vector file in .ai/.svg/.dwg format supplied by the customer)

COMPLIANCE WITH STANDARDS

Special Evaluation SPE-1000
Charge DIN70121 / ISO 15118

