Schréder
Experts in lightability™

SHUFFLE

SHUFFLE EV CHARGER GEN2
7.4 | 11 | 22KW

SHUFFLE is a connected, modular approach to city hardware - with its plug-and-play rotatable modules that contain pre-certified hardware, it can be configured to suit your specific needs.

KEY ADVANTAGES

> Professional charging station with output up to 22kW

> Seamless integration into the SHUFFLE column

> Compatible with CPO back-office systems via OCPP 1.6

> Always on, ready for local authorisation

> Output signal for charging status (e.g. light ring integration)

The SHUFFLE EV CHARGER GEN2 is a solution defined by simplicity, with a carefully designed and seamlessly integrated system built into the SHUFFLE pole. It provides a truly plug-and-play, straightforward, and user-friendly option for electric vehicle charging.

It consists of a complete system capable of supplying power to charge an electric vehicle, monitoring system status, metring consumed energy, and wirelessly communicating with the system operator for charging authorisation and billing. This fast-charge AC socket features a locking actuator that supports the widely adopted European Type 2 connector.

The charger enables smooth integration with operator platforms, allowing charging authorisation and billing for a controlled and efficient experience.

For added convenience, the system is compatible with RFID cards, simplifying user access and ensuring secure authorisation.

- Connected to an operator: charging is limited to authorised users, with energy costs billed through the operator.

- Not connected: charging is available to all, providing free energy access.

SHUFFLE poles are designed and manufactured in hot-dip galvanised steel, offering excellent corrosion resistance against the elements. A high-grade polyester powder coating, available in a variety of colours, provides a durable finish that will last for years.

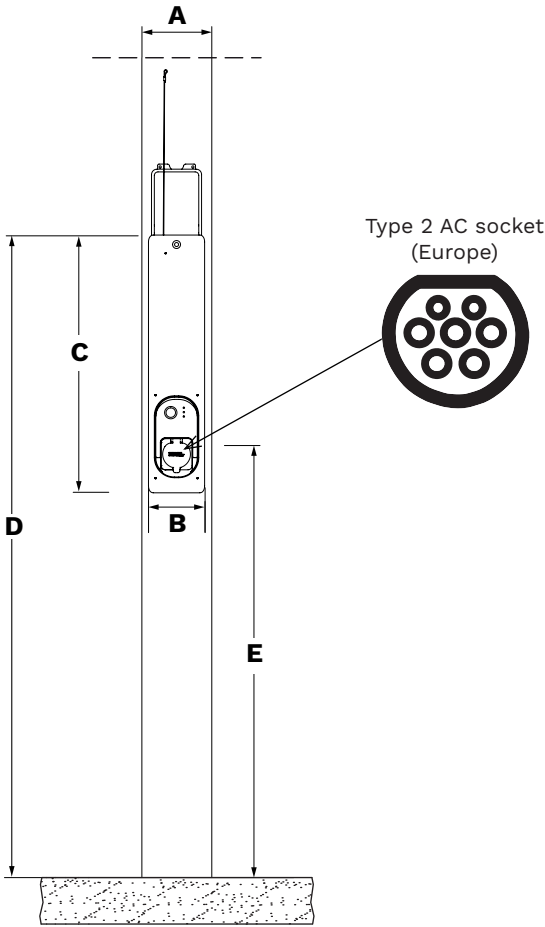# SHUFFLE EV CHARGER GEN2 | CHARACTERISTICS

KEY FEATURES

> **AC charging: single phase up to 7.4kW, three phase up to 22kW**

> **Type 2 socket (Europe)**

> **Safety locking during charging**

> **Optional link to Light Ring; colour signalling – Green: not in use, Blue: in use**

> **Integrated Dynamic Load Management (DLM)**

> **Integrated emergency release**

> **Ethernet interface and built-in 4G modem**

> **Smart Grid compatible via OCPP 1.5 and 1.6 (JSON and SOAP)**

> **MID compliant**

> **Supports EEBUS protocol for future compatibility**

> **Integrated 6mA DC fault current detection/monitoring (patented) – enables the use of RCD Type A, with no need for RCD Type B**

DIMENSIONS AND MOUNTING

A (mm | inch)	Ø193 | Ø7.6
B (mm | inch)	150 | 6
C (mm | inch)	710 | 28
D (mm | inch)	1770 | 68.7
E (mm | inch)	1170 | 46.1
Weight (kg | lbs)*	7 | 15.4
Mounting possiblilities	Pole, Flange Plate or Recessed

Estimated weight (EV charger box + socket)

Type 2 AC socket (Europe)

SHUFFLE EV CHARGER GEN2| CHARACTERISTICS

GENERAL

Installation height	1.2m	47.2'
CE Mark	Yes
RoHS compliant	Yes
RED compliant	Yes
Low voltage compliant	Yes
EMC compliant	Yes
UKCA marking	Yes
Normative requirements	ISO/IEC 61851-1 & 22 (charging mode 3)	ISO/IEC 62196	ISO/IEC 15118	IEC/HD 60364-7-722	EN 60947

HOUSING AND FINISH

Charging box	Inside the pole
Socket	Mounted on multi-purpose door
Interface	Polyethylene
Box housing	Polycarbonate
Socket housing	Polyethylene, CNC-machined

SHUFFLE

SHUFFLE Pole models	2 opposite doors	3 doors
SHUFFLE components	Mains box	Beyond light power supply box
Position on pole	Multi-purpose door

⚠️

The SHUFFLE EV CHARGER GEN2 is intended for use in the European market and operates on 230/400 volts.

Installation may be subject to specific national requirements, permits and/or utility approvals. Compliance with all applicable local, regional and national regulations is mandatory and must be verified prior to installation, operation, maintenance or replacement.

Schréder accepts no liability for non-compliance with these regulations.

EV CHARGER

AC socket outlet	Type 2 AC socket (Europe)
Electrical class	Class I EU

AC Nominal Input

Voltage	230/400V
Current	16-32A
Power	7.4-22kW

Operating Conditions

Ta	+35°C	95°F
Protection level	IP54
Impact resistance (socket)	IK 10

Communication

Protocol	OCPP 1.5 / 1.6 compliant (JSON, SOAP)
Mobile network	4G (LTE), 3G (UMTS) and 2G (GSM) with integrated 4G modem
Ethernet interface	Yes
Meter interface	Modbus TCP/RTU
Dynamic Load Management	Yes, via external Modbus interface (requires second meter for dynamic load management)

Safety

RCM	Integrated 6 mA DC fault current detection/monitoring (patented)
Housing lock	Emergency release for manual locking/unlocking
Compliance fuse	For three-phase systems, 40–63A
Authorisation methods	Yes – contactless systems (RFID access control). • Offline: RFID access control • Online: RFID or platform command (e.g. mobile app-based activation)
Mandatory - Installer must mount external power cabinet	RCD Type A, 30mA; MCB or fuse, C-curve, 32A

Inputs/Outputs

USB	1 config; 2 USB host
SIM card slot	Yes
RJ45	Yes