

SWARCO DRIVE

EASY TO USE AND CONVENIENT TO INSTALL

APPLICATION

Modular framework allowing for a 15-minute install.
Full user-control over a dedicated mobile app.

Slick, minimalist looks recognized by world-renowned design awards' jury panels.

We're pleased to introduce SWARCO Drive, our new-generation AC charging station.



- Minimalistic design
- EVSCP Compliant
- 15-minute installation process
- User-control via mobile application
- Dynamic Load Balancing*
- Various housing color and material variants
- User friendly

MINIMALISTIC FORM RECOGNIZED BY WORLD-RENOUNDED DESIGN AWARDS' JURY PANELS

Aesthetics and durability are paramount to us. For that reason, along with solid anodized aluminum housings, we decided to use polycarbonate composite - hardened synthetic material, highly resistant to scratches.

MODULAR STRUCTURE

Modular build provides a perfect solution facilitating a single base-piece and interchangeable charging heads.

READY TO WORK IN 15 MINUTES

Your EV charger will be ready to perform online within 15 minutes from unboxing. That's how quick it is to install SWARCO Drive.

ELECTRIC VEHICLES (SMART CHARGE POINTS) COMPLIANT

Fully compliant to EVSCP Regulations 2021, including both Smart functionality and Schedule 1 Security features.

MOBILE APP

Charging session scheduling and monitoring, power output adjustment, authorization settings, with off-peak and delayed-start options.

ADVANCED TECHNICAL SOLUTIONS

Intelligent charging-power limitation system that enables splitting the power dynamically between units in a chain, so the total charging power does not exceed overall output from the grid.

OFF-THE-WALL MOUNTING OPTIONS

A distinctive concaved backplate design makes it possible to install SWARCO Drive on diverse sites. Aside from all flat surfaces, one can mount it on lampposts, columns, signposts and various types of poles. This attribute enables easy installation by making use of street furniture and avoiding costly landscape rearrangements.

BUILT-IN PME

No need for earth rods with built-in open PEN conductor protection (single-phase only).

* Options

SWARCO DRIVE

MODULAR STRUCTURE



1st place in a New Technology category
Good Design 2021



iF DESIGN AWARD 2022



SWARCO Drive
CABLE
PREMIUM
silver
anodized
aluminum



SWARCO Drive
SOCKET
PREMIUM
silver
anodized
aluminum



SWARCO Drive
BACKPLATE



SWARCO Drive
CABLE
PREMIUM
black
anodized
aluminum



SWARCO Drive
SOCKET
PREMIUM
black
anodized
aluminum

CLOSE

OPEN



SWARCO Drive
SOCKET
polycarbonate
housing

SWARCO DRIVE

STRUCTURES, FEATURES, ADVANTAGES

Mobile App management

Install the app on your mobile and enjoy remote control and management over charging sessions' scheduling, power output adjustment, authorization settings and delayed-start option.

Secure limited access

Grant users' access to your charging station with authorized RFID cards or back-end system settings. Lock or unlock the charger remotely to allow or block charging.

Convenient billing system

SWARCO Drive has a built-in three-phase energy meter that enables billing individual loading sessions with over 99% accuracy. Pre-installed MID-certified meter is also available to be integrated within the unit.

Embedded PLC communication

ISO 15118 compliance

to be implemented: bilateral vehicle communication, connectivity with Energy Management Systems.

1-phase and 3-phase use

Type2 plug

SWARCO Drive is equipped to charge all existing and future electric vehicles using Type2 plugs.

EVSCP Compliant

Fully compliant to Electric Vehicles (Smart Charge Points) Regulations 2021, including both Smart functionality and Security features.

Dynamic Load Balancing

Intelligent charging power limitation system that enables splitting the power dynamically between units in a chain, so the total charging power does not exceed overall output from the grid.

Robust structure

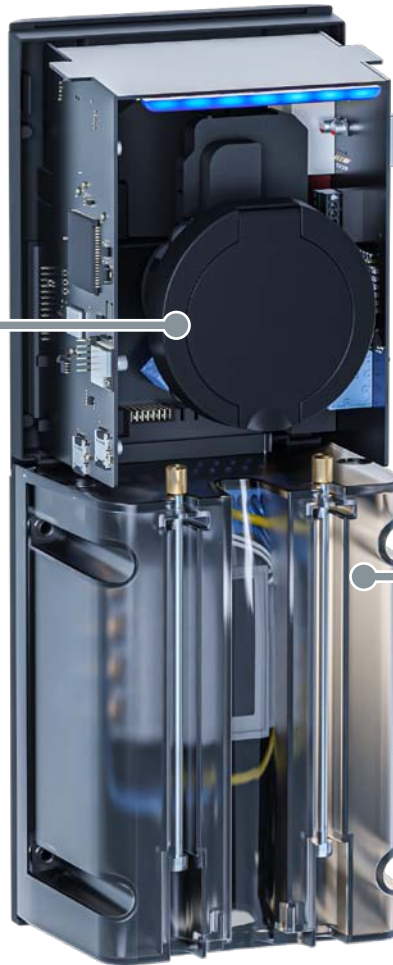
High-quality components along with a well thought design, IP54 ingress protection rate and a high, 10th degree of impact protection (IK10) make SWARCO Drive the perfect solution for public use.

Battery-powered control unit standby*

In the event of a power-cut, the charger supports the communication module for up to 1-hour operation time and provides an option to access it remotely, cease charging and disconnect the cable (RFID authorization / mobile app).

Built-in PME

No need for earth rods with built-in open PEN conductor protection (single-phase only).



* Options

SWARCO DRIVE



TECHNICAL SPECIFICATIONS

Housing	Polycarbonate, Anodized aluminum*
Ingress Protection rate	IP54
Impact protection (IK rate)	IK10
Flammability class	UL94-V0
Charging connector type	Socket - Type2 Socket, Tethered Cable - Type2 connector with 4.7m cord
Residual current protection	Embedded residual current monitor - RCMB 6mA DC (no Type B RCD required)
Energy metering	Integrated 3-phase energy meter >99 % accuracy
Certified electricity meter (MID)	Impulse* - possible to install inside the housing
PEN Protection	Integral PEN protection - no earth rod required (Single Phase only)
User interface	<ul style="list-style-type: none"> • multi-color LED strip EVC status indication • Dedicated app connecting station via WiFi AP 2.4 GHz b/g/n
Online communication unit	<ul style="list-style-type: none"> • Integrated LTE/4G modem • WiFi 2.4 GHz b/g/n - direct access point to the station with an option to hide the AP and connect the station to local Wi-Fi network
Minimal signal quality requirements	<ul style="list-style-type: none"> • WiFi: -60 dBm • GSM: -85 dBm
OCPP	compliance with OCPP 1.6 J protocol
Authorization	<ul style="list-style-type: none"> • built-in RFID / NFC reader - Mifare Classic / Free Charge • dedicated app connected via WiFi AP 2.4 GHz b/g/n
Current /Charging power	<ul style="list-style-type: none"> • up to 7.4 kW at 32 A 1-phase • up to 22 kW at 32 A 3-phase (TN system)
Charging voltage	3 x 400 V AC/ 230 V AC (±10 %)
Supply voltage	<ul style="list-style-type: none"> • 3 x 400 V AC/ 230 V AC (±10 %) (TN/IT) • Possibility of connecting the cable from the top, bottom and the back of the station
Other features	<ul style="list-style-type: none"> • configuration with no additional tools • remote start / stop, delay and charging schedule • temperature and humidity monitoring inside device
Operating temperature	-30°C / +55°C
Maximum altitude for installation	2000 m
Height	390 mm
Depth	133 mm
Width	155 mm
Weight	3 kg / 4.2 kg (depending on device-version)
Compliance	2014/53/EU (RED) 2011/65/EU (RoHS) 2014/30/EU (EMC) 2014/35/EU (LVD) OZEV EVHS & WCS Grants Approved (pending) CE + UKCA Marked IEC 61851-1, IEC 61851-22, IEC 62196-2

* Options