Pay-Charge

The new charging station for all billing systems

The sustainable overall solution!

CHARGING WITH THE LATEST STATE-OF-THE-ART TECHNOLOGY

With Pay-Charge, we have launched a charging station for public and commercial applications: continuous charging from 3.7 kW (1-phase) to 22 kW (3-phase)*. All present-day electric vehicles with a charge controller according to IEC 61851-22 can be charged. The charge regulator complies with state-of-the-art technology. The complete control technology is located in a weatherproof and sturdy housing. An galvanized steel with plastic coated base ensures steady positioning. Pay-Charge is also very suitable for wall box solutions (wall-mounted).

HIGH LEVEL COMMUNICATION ALREADY INTEGRATED

Since the spring of 2014, the ISO/IEC standard 15118 has been governing the charging of electric vehicles with alternating current worldwide. While most manufacturers of electric cars and electric charging stations are still coming to terms with the new standard, we have already implemented it into our Pay-Charge charging station: The data exchange of the charging station with the charge controller of the electric car via the ISO/EIC 15118 Powerline Communication (PLC) for plug & charge and consumer management systems is an integral part.

A PLC modem makes an Ethernet connection available, which can be used to communicate with the Internet Protocol (IP), to implement activities such as authentication, certificate management and verification as well as changing the charging parameters and automatic payment processing. Error handling intercepts possible errors. This ensures ever safe and successful charging (incl. payment).

MID-Zähler

Abrechnung
RFID-Leser
QR-Code (Muster)

Verfügbar/frei

Stecker
verriegelt

Ladung
läuft

ADDITIONAL FEATURES

The charge regulator takes care of monitoring the internal hardware such as meter, user interface module or socket. A calibrated MID-certified meter shows the customer in kWh the amount of electrical energy he/she "filled" into the car. Payment is made without the use of cash by means of the proven and tested RFID reader using a contactless RFID card. To start charging, an activated RFID card merely needs to be held to the reader. Depending on the provider or operator, charging/activation and payment can also be carried out using an app by scanning a QR code at the charging point. The provider's/operator's back-end system allows communication with the charge regulator.

Normally, back-end providers work with/according to the OCPP communication protocol. Therefore, the IT interface supports OCPP in the 1.5 and 1.6 versions. This makes the integration into modern billing systems extremely easy. Furthermore, the charge regulator is smart grid compatible because of the standard OCPP function. It also has an integrated 4G modem and supports 2.5G Edge and 3G UMTS mobile networks. A SIM card is required for online operation; this is not included in delivery.

There are two USB ports: One to configure the charge regulator or for the installation of software updates. The second USB port enables connecting USB peripheral devices. A peer group mechanism makes it possible to distribute a set current within a group of charge regulators - keyword "load management". Moreover, internal temperature sensors are integrated, with which the charge current can be reduced independent of the ambient temperature as well as internal current sensors, to measure the load current. If an error occurs, a report with the OCPP protocol is sent to the back-end system.

The device is equipped with a DC residual current detection. As a result, only one residual current circuit breaker type A is required on site.

*The actual charging power depends on the respective electric vehicle, the use of a 1- or 3-phase charging process, as well as the power supplied by the network operator (connected load).

A product from the SSL Energie GmbH | Münchener Straße 1 | 83527 Haag i. OB | www.ssl-energie.com
Subject to technical modifications and typographical errors. Last updated: 03/2021 V13

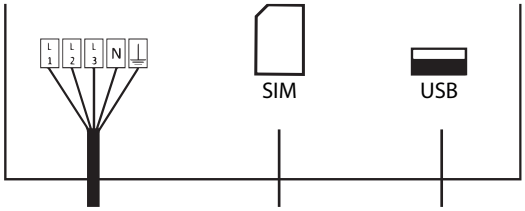
P-CHARGE

Pay- Charge has the eRoaming Technology seal from Hubject. The charging station can be unlocked via the digital platform intercharge via navigation system or app. Even without a power contract can be paid by PayPal or credit card.

TECHNICAL FEATURES

Nominal voltage:	3 x 230 V~
Nominal power:	16 / 32 A
Terminal blocks:	6 mm² (L1, L2, L3, N and PE)
IP code:	IP54
Overvoltage category:	III
Impact resistance:	IK10
Charging operating mode:	according to IEC 61851-1 (Mode 3)
Charging capacity:	Continuous charging; from 3.7 kW (1-phase) to 22 kW (3-phase)*
Charging connection:	Charging socket type 2 with LED indicator
Communication:	4G modem, OCPP, USB
Charging initiated:	by RFID by scanning a QR code (optional) integrated electric meter

CONNECTION SCHEMATIC



5 x according to power output power supply

GSM funktion

USB port (can be adapted, e.g. to LAN and WLAN)

ENVIRONMENTAL CONDITIONS

Operating temperature:	-25 °C to +80 °C
Barometric pressure:	860 hPa to 1060 hPa
Ambient humidity:	5% to 95% (non-condensing)

DIMENSIONS / WEIGHT / HOUSING

h x w x d / weight:	403 x 278 x 171 mm / approx. 7 kg
Housing:	UV-resistant plastic housing

ACCESSORIES

Mounting material

Base

h x w x d / weight:	1294 x 330 x 222 mm / approx. 25 kg
Surface:	Galvanized steel with plastic coated

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GUIDELINES AND STANDARDS

- IEC 61851-1:2010 or EN 61851-1:2011 - Part 1: General requirements
- IEC 61851-22 or EN 61851-22:2002: AC charging station for electric vehicles
- IEC 61439-5:2010 or EN 61439-5:2011 - Part 5: Switchgear assemblies in public energy distribution networks
- IEC 61439-7:2011 or EN 61439-7:2011 - Part 7 (draft): Switchgear assemblies for particular kinds of business premises, rooms and facilities such as marinas, campsites, marketplaces and similar applications as well as charging stations for electric vehicles
- VDE (German Electrical Engineering Association) 0100-722 – Part 7-722: Installing low voltage systems – Part 7-722: Requirements for particular kinds of business premises, rooms / facilities
- VDE-AR-N 4102: Outdoor junction boxes on low voltage systems of the general supply, technical connection requirements for the connection of stationary control cabinets, meter connection columns, telecommunication systems and charging stations for electric vehicles

Pay-Charge Charging station with billing system

Item no.	Name	Charging capacity	Connection	Control	Price excl. tax.
PAY22L-0	**Pay-Charge**	Stepless 3.7 kW to max. 22 kW (3-phase)	type 2 - plug EN 62196	integrated	Price on demand

Housing colour: RAL9003 (white), middle part of front freely selectable, printable in digital print with CMYK, print data provided by customer (in standard version RAL6018), price on request

ACCESSORIES

Item no.	Name	Description	Price excl. tax.
261900-006	**Single base**	To enable stand-alone installation. Including accessories to mount the charging station.	Price on demand
261900-007	**Double base**	Like 261900-006 however, with a second mounting plate on the opposite side for second charging station.	Price on demand
2611020-111	**RFID card reader**	Optional for SP Charge SP11L-704 and SP22L-804	Price on demand

STAND BASE DIMENSION DRAWING