Data sheet

go-e Charger Gemini 2.0

11/22 kW

Stationary wallbox/charging station for electric vehicles,
According to EN IEC 61851-1:2019,
Valid for article numbers: CH-05-11-51, CH-05-22-51

Smart EV Charging Solution

No matter which electric car
or plug-in hybrid you drive.
The go-e Charger will reliably
charge your vehicle.

Integrated SIM card for cellular connection
Charging power: e.g. 1.4 - 3.7 - 7.4 - 11 - 22 kW
Single-phase or three-phase

V 1.0

go-e Charger Gemini 2.0
Highlights

Many smart functions that make charging electric vehicles even more convenient are already integrated in the go-e Charger Gemini 2.0. The charging station is suitable for installation indoors and outdoors in both private and commercial environments (without selling charging power). The charger can be connected directly to the building's electrical current using the 1.8-meters connection cable. **It is not necessary to open the go-e Charger during the installation process.**

Simply charge any electric vehicle

The go-e Charger can be installed with little effort and put into operation within a very short time, depending on the home's electrical system. Simply attach the wall bracket, hook up the wallbox and connect it to a suitable power source.* The charging process is as uncomplicated as charging a smartphone. Plug in the type 2 cable and the go-e Charger charges with the power requested by the car in the standard setting. If necessary, the charging current can be adjusted directly on the device using the black button.

Numerous safety functions

The extensive safety functions of the go-e Charger ensure that you can sit back and relax while the car is reliably charged. The charging station reduces the current flow if necessary (static / dynamic** load balancing) or switches off completely if fault currents occur. In this way, the charger protects your car, your home's electrical system and itself from damage. The go-e Charger is equipped with a DC protection module that protects the house wiring from possible DC fault currents that could be caused by an electric car. On the building side, only a type A residual current circuit breaker and a miniature circuit breaker need to be installed. The go-e Charger also provides additional protection against AC faults (6 mA DC, 20 mA AC).

Total control - via app even from the sofa

All charging processes can be carried out with the go-e Charger without an app. The wallbox signals the current charging status via an LED ring. All details about the charging status can be viewed even more conveniently via the go-e Charger app. If necessary, you can also use it to adjust all basic and comfort settings. You also keep an eye on the amount of electricity charged via the integrated electricity meter. When the wallbox is integrated into a WiFi network or when the charger's cellular connection is active, the device can be controlled and monitored from your sofa.

Usable inside and outside

Thanks to the IP65 classification, the go-e Charger can always deliver full performance regardless of the weather conditions. The charging cable can be locked to prevent theft. When installed outdoors, you are able to protect the wallbox from unauthorised use by using an RFID chip. RFID chips are also useful if several people share the device. The charged current is shown separately for each user.

Different charging modes for cost-effective and sustainable charging

Coming home after work and immediately starting the charging process is easy, but not necessarily sustainable and cheap. With intelligent functions such as the scheduler, you can postpone your charging processes with the go-e Charger to times when electricity is available in abundance. This reduces the pressure on the electricity grid and, depending on the electricity tariff, can also pay off financially.

Charge even more intelligently with the go-e Controller

Take your charging experience to the next level with the go-e Controller. The Controller enables dynamic load balancing to avoid overloading the grid when charging your vehicle. The Controller also helps you easily use surplus power from your solar panels and monitor your energy flows. To further optimise your charging process, we recommend a holistic solution consisting of a go-e Charger and an energy management system such as the go-e Controller.

*This work may only be carried out by a qualified electrician.
**with go-e Controller

Due to legal regulations the go-e Charger Gemini must not be used in the following countries: Netherlands, France, Italy.

Technical data
go-e Charger Gemini 2.0

All smart features, software updates and remote diagnostics in the event of support are now also available without WiFi thanks to the integrated SIM card and cellular connection.

Scope of delivery

Gemini 2.0 11 kW	Gemini 2.0 22 kW
11 kW charging station with 1.8 metres connection cable	22 kW charging station with 1.8 metres connection cable
Wall bracket incl. screws and dowels	
Optionally mountable anti-theft device (U-piece)	
One reset card	
One RFID-Chip (already learned)	
Quick reference guide	

Product specifications

	Gemini 2.0 11 kW	Gemini 2.0 22 kW
Stationary wallbox/charging station	According to EN IEC 61851-1:2019	
Dimensions	Approx. 15.5 * 26 * 11 cm	
Weight	1.85 kg	2.34 kg
Connection cable	1.8 m, 5 x 2,5 mm² (type H07BQ-F)	1.8 m, 5 x 6 mm² (type H07BQ-F)
Connection	Single-phase or three-phase	
Rated voltage	230 V - 240 V (single-phase) / 400 V - 415 V (three-phase)	
Nominal frequency	50 Hz	
Power grid types	TT / TN / IT	
Standby power	3.1 W (LEDs dark) to 5.2 W (LEDs bright)	
RFID	13.56 MHz	
WiFi	802.11b/g/n 2,4 GHz / frequency band 2412-2472 MHz	
Cellular connectivity	4G | LTE / 2G | EDGE / Supported bands: GSM900, GSM1800, LTE FDD: B1 B3 B5 B7 B8 B20 / Frequency Range: 800MHz - 2600MHz	

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Additional cellular specifications

	Gemini 2.0 11 kW	Gemini 2.0 22 kW
Mobile phone contract	At least 5 years of free cellular connection. Extension possible for 12 euros incl. VAT per year.	
SIM card type	Factory-integrated eSIM from go-e (not exchangeable). Factory-installed customer-owned nano-SIM for larger B2B projects.	
Activate/Deactivate	At any time via go-e app or API	
Connection types	Standard: 4G LTE Cat-1 Fallback in case of limited reception: 2G / EDGE	
Country availability go-e tariff	Unlimited cellular connection in all **EU countries, Great Britain, Switzerland, Norway and Liechtenstein**. Free roaming between these countries.	
Mobile networks	An overview of the mobile networks used in the above-mentioned countries is available on the go-e website in the Support/FAQ section.	

Overview of network interfaces go-e Charger series (V3 to V5)

	HOME series (V3)	Gemini series (V4)	Gemini 2.0 series (V5)
WiFi hotspot	yes (can be disabled)	yes (can be disabled)	yes (can be disabled)
WiFi connection	yes	yes	yes
4G / LTE	no	no	yes
2G / Edge (Fallback)	no	no	yes

Functions & interfaces go-e Charger Gemini 2.0

	Using WiFi	Using cellular
App connection	yes	yes
OCPP[1]	yes	yes
Dynamic energy tariffs	yes	yes
Static load balancing	yes	yes
Dynamic load balancing with go-e Controller	yes (Internet connection required for Controller)	yes (Internet connection required for Controller)
Charging log recording and export	yes	yes
HTTP Cloud API	yes	yes
MQTT API[2]	yes	no
Modbus TCP[3]	yes	no

[1]OCPP connection is established directly from the Charger. No tunnelling through the go-e Cloud. OCPP can also be used when the go-e Cloud connection is deactivated.
[2]MQTT connection is established directly from the Charger. When using WiFi, the connection to MQTT brokers is possible both in the local network and on the Internet. It is not possible to use MQTT via cellular connection due to the high data volume.
[3]As Modbus TCP connection to the go-e Charger has to be established by directly using an IP address, a connection via cellular network is technically not possible.

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Permissible ambient conditions

	Gemini 2.0 11 kW	Gemini 2.0 22 kW
Installation site	Indoors and outdoors	
Operating temperature	-25 °C bis + 40 °C	
Storage temperature	-40 °C bis + 85 °C	
Average temperature in 24 hours	Maximum 35 °C	
Altitude	Maximum 2.000 m above sea level	
Relative humidity	Not more than 95 % (not condensing)	
Impact resistance	IK08	

Charging capacity

	Gemini 2.0 11 kW	Gemini 2.0 22 kW
Maximum charging power	11 kW (16 A, 3-phase)	22 kW (32 A, 3-phase)
Ampere- and status display	Readable via LED ring and app	
Adjusting charging power	By button and app	
	Via charging current in steps of 1 Ampere between 6 A and 16 A	Via charging current in steps of 1 ampere between 6 A and 32 A

	Gemini 2.0 11 kW	Gemini 2.0 22 kW	Remark
Single phase charging car[1]	1.4 kW to 3.7 kW	1.4 kW to 7.4 kW	Country-specific limitations need to be observed
Two phase charging car[1]	2.8 kW to 7.4 kW	2.8 kW to 14.8 kW	Two-phase connection of the charger is not possible
Three phase charging car[1]	4.2 kW to 11 kW	4.2 kW to 22 kW	go-e Charger switches trough the power that is avaiable at the connection

[1]Charging power depending on the number of phases of the car's onboard charger

Connection to vehicle

Gemini 2.0 11 kW	Gemini 2.0 22 kW
Typ 2 socket (acc. to EN 62196-2) with mechanical locking device (own type 2 cable required, avaiable as accessory	
Vehicles with type 1 can be charged with adapter cable type 2 to type 1 (avaiable as accesories)	

Safety functions

	Gemini 2.0 11 kW	Gemini 2.0 22 kW
DC protection module with DC detection and additional AC detection	6 mA DC, 20 mA AC (An RCD type A must be installed on the building side and a miniature circuit breaker must be connected upstream. The local installation regulations must be observed).	
Protection class	I	
Pollution degree	II	
Anti-theft device	Charging cable locking device	
Access control	Can be activated if required. Authentication via RFID or APP possible. One learned RFID chip is already included.	
Input voltage	Phase and voltage testing	
Switching functions	Testing of the switching functions	
Ground check	For TT, TN grids (deactivatable ground check for IT grid - Norway mode)	
Current sensor	3-phase	
Grid-serving control	Two data cables for connection to ripple control receiver	
Temperature sensors	Regulation of the charging current in case of overtemperature	
IP65	Protected against dirt and water, suitable for permanent outdoor operation	
go-e network operator API	For authorised access by the electricity grid operator to the go-e Charger for grid-serving power control	
Modbus TCP	E.g. for grid-serving power control by the electricity grid operator	

3 years warranty

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go-e app and connectivity

Gemini 2.0 11 kW	Gemini 2.0 22 kW
Local (WiFi hotspot) or worlwide* (WiFi or cellular connectivity) controlling and monitoring	
Adjustment/check of the charge (voltage, current, power, energy)	
Adjusting the current level in 1 ampere steps	
Start/stop function and Scheduler	
Management of RFID chips/cards (up to 10 users per charger) / Access control (RFID/App)	
OCPP 1.6*	
Electricity meter (total kWh and total amount per RFID chip)	
kWh limit mode / ECO mode* / Daily Trip mode*	
Push notifications*	
Cable unlock functions	
Flexible energy tarifs with intelligent charging management*/**	
Static load balancing*	
Photovoltaic connection via go-e Controller (separate product) or open API interface (programming required) or alternative energy management system*	
LED adjustment	
Management of the charging levels via button on the charging station	
Updateable for later functions (Smart home, etc.)*	
Automatic unlocking of the charging cable in the event of a power failure	
1-/3-phase switching via app or automatically with go-e Controller - even during the charging process	
Synchronisation of charging processes with the cloud and display of the past charging processes*	
Documented public API interfaces: HTTP , MQTT, Modbus TCP	

*Internet connection of the Charger required
**Contract with an electricity provider whose flexible electricity tariff is integrated in the go-e app is required. Several 100 tariffs are stored. The number of tariffs is constantly being expanded.

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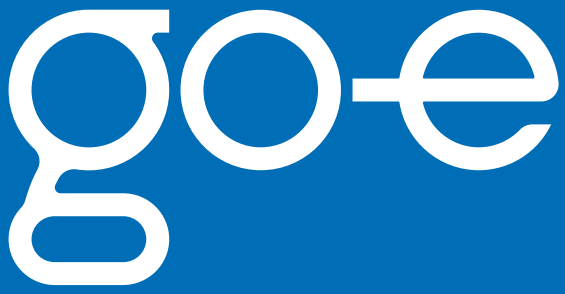

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