

# technagon

advanced charging e-xperience

# charging module

modular  
& intuitive



COMPLIANT WITH  
CALIBRATION LAW



Stand 09/2022

## Technagon Charging Module

■ innovative    ■ unique    ■ user-friendly    ■ service friendly    ■ modular

The Technagon charging module was developed for the new charging generation and can be used universally in our wallboxes, charging columns and big screens. The integrated, in-house developed charging controller promises maximum reliability and flexibility.

The charging module is unique in its design: the requirement during development was not only to be usable in the complete Technagon product portfolio, but also to be designed as a separately certified component under calibration law. This revolutionizes service. After simply replacing the module, there is no longer any need for a new calibration process - a solution that is as simple and convenient as possible!

## features & functions

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- areas of application: public and semi-public areas
- new solution in calibration law conformity, the charging unit as a closed part
- extremely service-friendly thanks to the design as compact, closed charging module
- compliant with calibration law (ERK) or MID-compliant (optionally) – also available with spiral charging cable
- Connection exclusively via plug connections / terminals
- Construction: High quality plastic housing in color RAL9005 | Special colors on request
- Function display / operation: 4.3" display and RFID reader
- extremely service-friendly thanks to the compact, closed charging module
- Customized housing on request

## main areas of application

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The Technagon charging module is mainly installed in the Technagon product portfolio, which is optimally suited for use in public and semi-public areas.

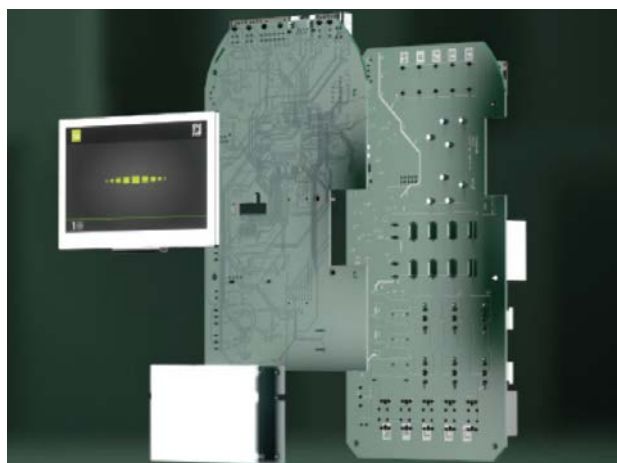
In addition, installation in customer-specific special solutions is possible.

## highlight

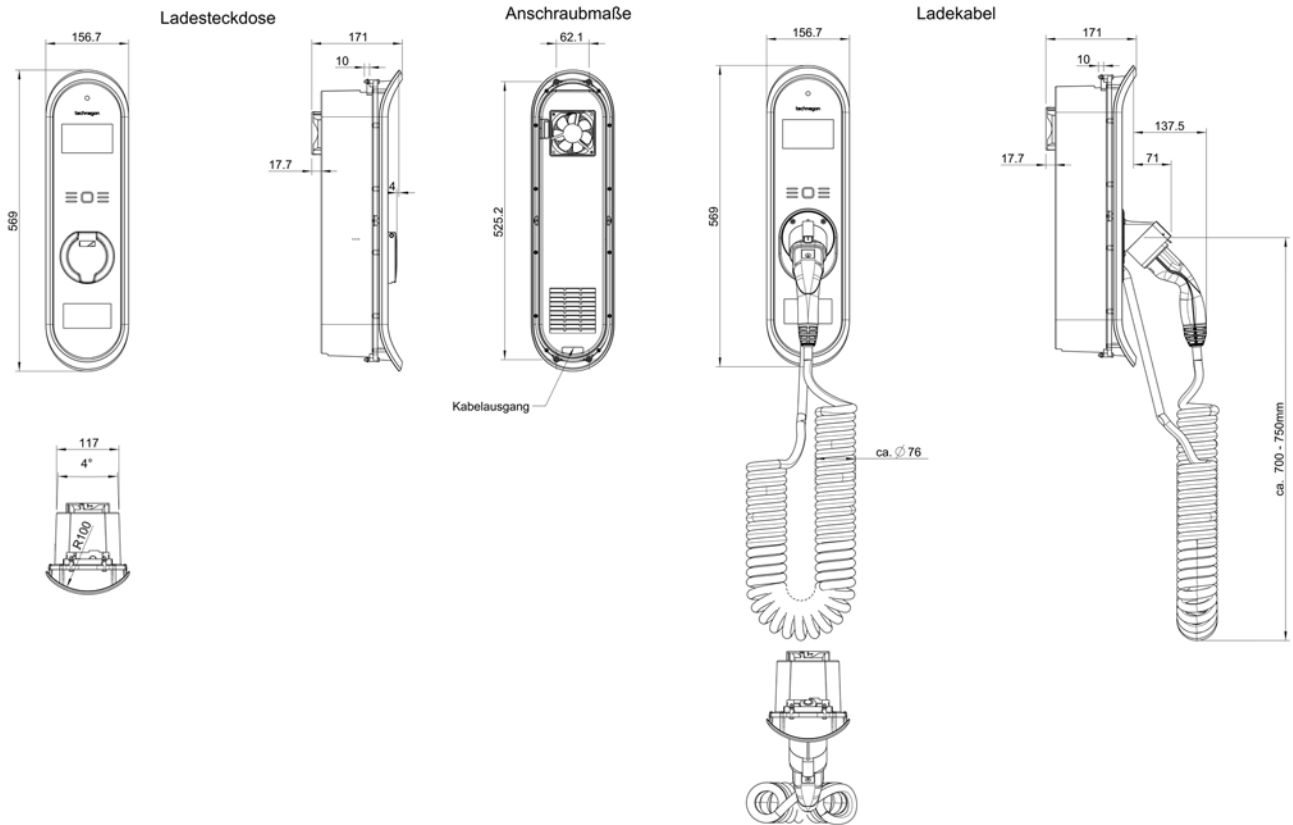
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The unique charging unit opens up completely new possibilities in charging technology. It is a revolution in terms of service, the simple scope with calibration law and also in terms of user-friendliness. This charging unit is based on a great deal of experience, a high level of innovation and the need for convenience for operators and service.

The powerful Technagon **charging controller** is the core of the device.



dimension (mm)



base variant

charging unit with attached cable



charging module with charging socket



four screw points for mounting



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## technical information

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### features and functions

authentication	über RFID-Karten (ISO 14443) MIFARE Ultralight, Classic oder DESFire
display	4,3"- color display
charging processes	according to IEC 61851 "Mode 3", charging current regulation, optional loading information via OCPP (in Kombination mit Übertragungseinheit)
charging ports	2x IEC 62196 type 2 charging socket plug lock Optionally 1 x attached cable type 2 *max. 1 x 22 kW (max. 32 A) (* simultaneity factor 0.9 and temperature derating) Emergency unlocking in the event of a power failure

### mechanical execution

dimension	569 x 157 x 171 mm (H x W x D)
weight	depending on the version 4-10 kg
operating temperature range	-25 °C bis +50 °C (depending on housing)
protection class	IP20 (IP54 with additional housing possible)
mounting type	mounting via four screw points in a housing
handling	service-friendly design

### electrical version

power connection	power connection: 3P+N+PE, max. 5 x 35 mm <sup>2</sup> , nominal voltage: 230/400 VAC, 50 Hz, rated current: 32 A, Ground fault circuit interrupter F204A-40 (ABB 2CS-F204101R1400) required on site; optional: residual current circuit breaker F204B-40/0,03 (ABB 2CSF204568R1400)
security	Fuses: 3x32 A (on power board) Back-up fuse required on site according to currently valid standards DC residual current detection (optional type B FI) temperature derating; contactor glue detection
specific features	i-MiEV-recognition, Mode-3s-recognition
status indicator	Status display connection with error detection by different blink codes (24V)
energy meter	calibration law conformity, optionally available MID-conform
calibration law-compliant long-term storage	local and physically accessible storage of charging data over 8 years using a SD card
standby consumption	Approx. 10 Watt

## technical information

### connectivity (Only in combination with our Technagon PC)

surveillance	monitoring and diagnostics per OCPP1.6 (OCPP 2.0 in preparation)
remote maintenance and remote update option	The most important parameters required for individual operation can be configured via the Technagon WebInterface.
external IT systems	connection via GPRS, UMTS, LTE, Ethernet port

### billing and customer management (Only in combination with our Technagon PC)

billing	by means of signed, calibration law-compliant data records via OCPP
customer management	via OCPP or local whitelist (csv import) optional payment option by Giro-e (EC card)

subject to technical changes



## basic version

article-no.	description
40069.208	Charging module; compliant with calibration law; semi-public and public area; 1 charging point (charging socket)

## options

article no.	description
40069.149	charging points MID compliant
40069.150	attached cable (permanently installed cable – no own cable necessary)
40069.161	direct payment system via Giro-e (EC card) Business account with billing partner GLS Bank required separately

## application in the Technagon product series

