

## innolectric CEC Platform

Highest power density with full charging flexibility



## EV charging the most comfortable way

Experience the future of EV charging with our innovative 22kW Compact Efficient Charger platform. Designed for maximum power and convenience, this charger delivers exceptional performance without compromising on reliability. The innolectric CEC combines the power electronics and the D3C communication module enabeling AC and DC charging without the need for additional devices. This is based on the innolectric concept, which requires only the integration of a single-unit solution for all charging functionalities on the customer side.

### **Multitude of application**

### Use Cases for the CEC

- Heavy duty, construction and mining machinery
- Municipal and agricultural vehicles
- · Light and heavy duty trucks
- Marine applications such as ferries and yachts
- Stationary and mobile applications such as refrigeration and energy storage systems









- On-board chargers with the highest power density in its class: ~2,0 kW/l
- High efficiency of at least 96%
- Compatible with almost all common energy grids in Europe, North America, India and the Asia-Pacific region
- Full interoperability according to all major charging standards:
   IEC 61851, SAE J1772, DIN SPEC 70121 and ISO 15118-20
- Includes bidirectional charge mode (V2X)
- Developed and tested according to ECE r10 rev.6

### AC and DC charging with one compact component

The innolectric CEC is designed to meet the highest industry standards, offering both AC and DC charging in a single compact component. The charger supports AC charging based on the common international standards, ensuring reliable performance and compatibility across a wide range of electric vehicles. The CEC's distinguishing feature is its integrated charging communication controller, which enables DC charging as well. In addition, the CEC offers the bi-directional charging for V2X applications.

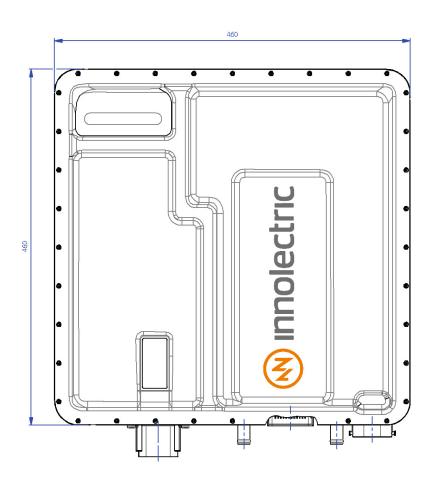
#### **Extended functionalities**

Innolectric develops its products in-house, from the hardware to the software, to ensure the highest quality and functionality. In light of the numerous projects we have undertaken and the evolving demands of our international customer base, we have taken the initiative to closely examine current trends and requirements.

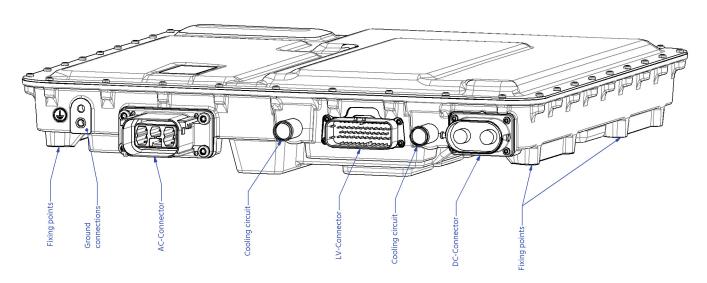


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**Technical Drawing** 







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## Technical Data

Components		
	CEC-22400	CEC-22800
Component design	400 V	800 V
Input power	22 kW	
AC Input		
Input voltage (3~ AC)*	400 V (+10% / -18%)	
Input voltage (1~ AC)*	120 - 240 V (+15% @230 V / -15% @120 V)	
Input current	32 A (per phase)	
Frequency	50 - 60 Hz (+ / - 1 %)	
Efficiencγ	typically 96 %	
DC Output		
Output voltage*	268 - 500 V	520 - 850 V
Output current*	up to 75 A	up to 45 A
Charging communication		
AC charging	IEC 61851, J1772	
	Type 1, Type 2, (NACS)  DIN SPEC 70121, ISO 15118-20	
DC charging	CCS1, CCS2, (NACS)	
Charging mode	unidirectional, bidirectional (V2X)	
Technical data		
EMC	ECE r10 rev.6	
Protection class	ІР6К9К	
Safety functions	overtemperature, overcurrent and overvoltage protection, galvanic isolation	
Machanital data		
Mechanical data		
Dimensions (L x W x H)	460 x 460 x 93 mm	
Weight	~ 19 kg	
Operating temperature	-40 - +65 °C	
Interfaces*	1x CAN J1939 / 1x Service CAN	

Ready to experience the future of EV charging?

Contact the innolectric sales team today to learn more about the CEC on-board charger.

Want to test the CEC in your application?

Contact us at sales@innolectric.ag and order your sample!

Information is subject to be changed.

 $<sup>\</sup>mbox{*}$  Parameters can be customised to the customer application.