



# Powering Electro-mobility Ahead

AC Charger for EV

7.5 KW - 22 KW

## Future of Mobility

Future of mobility is smarter, reliable, and emission-free, accessible by and for everyone, everywhere. We offers a total ev charging solution from compact, high quality AC - DC, DC - DC , reliable DC fast and ultra-charging stations with robust connectivity. We deploy infrastructure that meet the needs of the next generation of smarter mobility.

### Application:

- Home, apartments, condos
- Movie theaters, museums, hotels, restaurants
- Department stores, malls, coffee shops, supermarkets, Workplace
- Parking space, roadside charging

### Features & Benefits

- AC charger improves parking turnover
- RFID and ISO 15118 authentication for user management
- Low standby power consumption for energy-saving
- Remote management by built-in network connectivity
- OCPP compliance enables back end system integration
- IP55 and wall mount/stand installation provides high adaptability



Highway



Hotel



Fleet



Station



Office



Parking

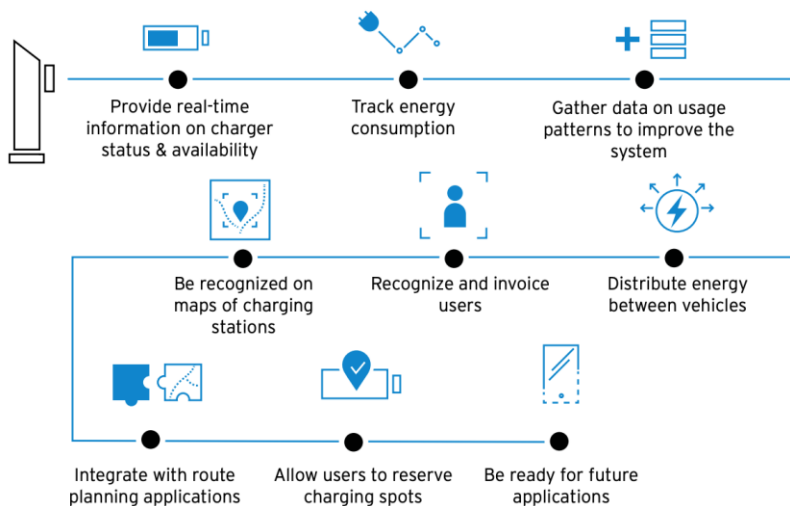
## Specifications

RANGE	AC 7.4kW	AC 11kW	AC 22kW	
<b>INPUT</b>				
Input Voltage	230 V AC, ± 10%	230 V AC, ± 10%	400 V AC	400 V AC, ± 10%
Number of Phase & Wires	1Φ - L, N & PE - 3 Wires	1Φ - L, N & PE	3Φ - 3L, N & PE	3Φ - 3L, N and PE - 5 Wires
Frequency	50Hz	50Hz	50Hz	50Hz
<b>OUTPUT</b>				
Rated Output Voltage	230 V AC	230V AC	230V AC / per Φ	230 V AC / per Φ
Output Power	7.4kW, 32A	7.4kW, 32A + 3.6kW, 15A		22kW, 32A (Max)
Charging Gun Type	IEC 62196-2 AC Type 2 Gun	IEC 62196-2 AC Type 2 Gun + Socket		IEC 62196-2 AC Type 2 Gun
No. of Output	Single Output	Single & Dual output (Optional)		Single output
Efficiency	>90%	>90%		>90%
Cable Length	3M or 5M cable (Optional)	3M or 5M cable (Optional)		3M or 5M cable (Optional)
<b>PROTECTION</b>				
Ingress Protection	IP54			
Electrical Protection	Over Current, Over Voltage Protection, Under Voltage Protection, Ground Fault, Leakage Current (RCD), Over temperature			
<b>USER INTERFACE</b>				
Display	LCD Display (Optional)			
Status Indication	2 LED's for Indication Blue Flash - Initialising, White Steady - Charger idle, Green - Charging, RED - Fault			
Push Button	Emergency Stop button, On/Off Switch			
Authentication	RFID, Mobile App, Remote monitor, CMS (Optional)			
<b>COMMUNICATION</b>				
Network Communication	LAN, Wi-Fi, 2G, 3G & 4G	LAN, Wi-Fi, 2G, 3G & 4G		LAN, Wi-Fi, 2G, 3G & 4G
Communication protocols	OCPP 1.6	OCPP 1.6		OCPP 1.6
<b>ENVIRONMENT</b>				
Operating Temperature	-20° to +55° C	-20° to +55° C		-20° to +55° C
Operating Altitude	<2000m	<2000m		<2000m
Relative humidity	<95%, Non Condensing.			
Installation	No conductive and explosive dust, no corrosive atmosphere			
<b>GENERAL FEATURES</b>				
Mounting	Wall Mount, Pole Mount (Optional)			
Dimensions (H x W x D)	340mm x 260mm x 180mm (Excluding charging cable & gun)			
Weight	~12 KG	~12 KG		~12 KG
Cooling	Natural Cooling	Natural Cooling		Natural Cooling
Warranty	12 Months - (From the date of Invoice)			

# Leading with reliability, intelligence and Experience

QUALITY	INTELLIGENCE	EXPERIENCE
<p><b>SAFETY, RELIABILITY, UPTIME</b></p> <ul style="list-style-type: none"> <li>• Safety standards approved</li> <li>• Robust materials and designs</li> <li>• Easy to service in field</li> <li>• User friendly interfaces</li> <li>• Modular architectures</li> <li>• Wide range</li> <li>• Performance tested</li> </ul>	<p><b>CONNECTIVITY &amp; REMOTE ASSISTANCE</b></p> <ul style="list-style-type: none"> <li>• 24/7 support</li> <li>• Remote diagnostics</li> <li>• Remote upgrades</li> <li>• Intuitive web tools</li> <li>• Interoperability-focused on hardware and software</li> </ul>	<p><b>COMMITTED, BANKABLE PARTNER</b></p> <ul style="list-style-type: none"> <li>• Broad OEM co-development</li> <li>• Active in standards organizations</li> <li>• Talented organization</li> <li>• Proactive roadmap</li> <li>• R&amp;D in every region</li> </ul>

## Charging



# End Point Connector Solution



SAE J1772



Type 2 Connectors (Mennekes)



SAE Combo



CHAdeMO



Port J1772, level 2



Nema 1450 (RV plug) level 2



CHAdeMO, level 3



SAE Combo CCS level 3

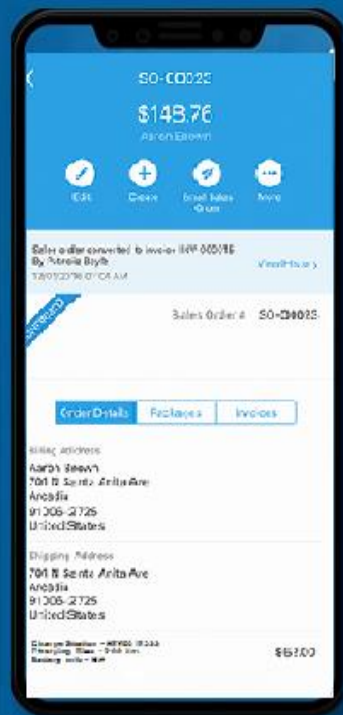


Tesla HPWC, level 2



Tesla supercharger level 3

Simplified charging Solution for all Kind of Connectors



## Key Feature

- Platform and Connector independent Solution
- Google mapping with Native app to locate station
- User Can Verify Charging remotely, Admin can monitor demand and supply
- Service request button on App , Self-reboot, Remote assistance and AI integrated resolution for Customer
- Easy Integration with any Currency and gateway for payment collection
- No restriction on Input Voltage 110 V - 240 v compatibility
- Plug and play - No restriction, Universal input Connection
- Easy to maintain, 24/7/365 toll-free support
- Camera and Voice integration is possible
- ISO, CE Certified, CSA will obtain

## Optimized performance with supporting experts

### Improving operational reliability

Product Life Cycle Management supports asset management and budgeting by providing information at the right time. Implementation of a life cycle strategy improves operational reliability.

### Maximizing operational uptime

Operational reliability means non-stop processes. Accordingly, the systematic application of the Product Life Cycle Management model will maximize operational uptime.

### Lowering life cycle costs

Maximum operational uptime minimizes failure costs and therefore reduces overall operational expenditure. In other words, Product Life Cycle Management lowers downtime and related costs.

**KROSSMARK PRIVATE LIMITED**

**KROSSMARK ELEKTROWAGEN DUITSLAND**



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