

7" TFT LCD touch screen

**Plug into
Tomorrow**



Technical Specification

EVDC Charger Gen 2.0

180/240kW

Harmony Series - Gen 2.0 - 180 /240 kW EV Charger

Introducing the Harmony family of EV chargers - a cutting-edge solution designed for performance, efficiency, and scalability in modern electric vehicle infrastructure.

Key Features:

1. High Power Output:

Delivers up to 120 kW with dynamic load sharing (optional) across multiple charging stacks for optimal resource utilization.

2. Very Low Reactive Power:

Ensures minimal energy loss, contributing to greater overall system efficiency, with multi-SMR drives.

3. High Efficiency:

System efficiency of >95%, resulting in a lower total cost of ownership and reduced energy waste.

4. Dynamic load sharing

In steps of 30kW, enables utilization of maximum charger potential

5. Robust Operating Range:

Designed to operate in a wide temperature range, with intelligent de-rating beyond 55°C to maintain reliability.

6. Support for High-Voltage Batteries:

Compatible with battery systems up to 1000V, covering current and next-gen EV platforms

7. Wide Compatibility:

- **Supports CCS2** (ISO/DIN) charging protocol, ensuring compatibility with the majority of EVs in the market.
- Fully compliant with **Open Charge Point Protocol (OCPP) 1.6**, ensuring seamless integration with standard and custom CMS platforms.

8. Smart Multi-Stack charging profiles:

Enables intelligent charging management across multiple EVs with advanced stack-level coordination.

9. Advanced Remote Monitoring System (RMS) Functionality:

Comprehensive Remote Monitoring System for real-time diagnostics, data logging, and fault management with functionality of rule engine for customization

10. Ring Net Support:

Allows on-site integration between two chargers to boost the total output power.

11. User-Friendly Interface:

Equipped with a 10-inch touchscreen, offering an intuitive and responsive user experience. With optional multi-lingual support.

12. Quick Deployment:

Engineered for easy transportation and fast installation, reducing site setup times and costs.

13. Custom Branding:

Option for customer-specific decals to enhance branding and visual presence at site.



Standard Variant

- Indigenously developed OS providing flexibility for future proofing
- Solution for very low reactive losses
- Multi stack smart charging profiles
- Power sharing between 2 chargers with ring technology
- Light indication for showing SOC of individual guns
- Flexible Authentication process

Premium Variant (in addition to standard)

- Vibrant screen savers: Up to 8 Screen savers before startup screen
- Multilingual interface- supports up to 6 regional and 2 foreign languages
- Dual arm-based cable management
- Ambient lighting
- Ergonomic Gun holder
- Advanced RMS functionality with rule engine & AI based insights

Maximum Output Power Rating		180/240 kW Gen 2.0 With 30kW/ 40kW conversion module
Power Output	DC Output Voltage Rating	200 - 1,000 Vdc
	Outlet 1	CCS-2 200/250/300A/ (375A in 240kW)
	Outlet 2 (optional)	CCS-2 200/250/300A/ (375A in 240kW)
	Simultaneous EV charging qty.	1 or 2
Mains Input	Input Voltage (nominal)	380/400/415 Vac
	Input Voltage Range	320 Vac - 460 Vac
	Network Connection	TN-S
	AC Wiring	3-Phase (L1, L2, L3), N, PE
	Input Frequency (nominal)	50 / 60 Hz
	Input Frequency Range	45 - 65 Hz
	AC input kVA 60/120kW	280 A, 194 kVA @ 400 Vac / 372 A, 258 kVA @ 400 Vac
	Conversion Efficiency	≥ 95% (Load 50-100% at nominal input voltage)
	THD(i)	< 5 % (Load 50-100% at nominal input voltage)
Protection and Safety	Power Factor	> 0.98 for load 50-100% at nominal input voltage
	Over current, Under voltage, Over voltage, Residual current, Surge protection, Short circuit, Over temperature, Ground fault, Insulation fault, Emergency Stop	
User Interface and Communication	Display	10" TFT LCD touch screen
	Support Language	English (Optional multi-lingual interface support)
	Emergency Switch	Available (red mushroom push button)
	Charge Option / User Authentication	RFID, mobile app, OTP, QR Code
	Energy Metering (for non-billing purposes)	Included
	Energy Metering (MID)	AC (input) MID meter (optional)
	Visual Indication (LED)	Presence of Supply, State of Charging, Error
	RFID	MIFARE - ISO/IEC 14443A
	Connectivity	Internet access via Ethernet (RJ45)
	Modem (option)	4G LTE (EU)
	Communication Protocol	OCPP v1.6j (JSON)
	Battery Backup	~ 30 mins for controller unit
Configuration	Software update	OTA (Over The Air) via Exicom web portal
	Control and Set up	OCPP v1.6j, local (passcode controlled), Exicom web portal
Mechanical	Ingress Protection	IP 54 acc. IEC 60529
	Impact Resistance	IK10 acc. IEC 62262
	Dimension (H*W*D)	1,852 * 756 * 648 mm
	Weight	290 kg Approx. (without SMR) 410Kg Approx. (with SMR)
	Charging Cable Length	5 meters, 7 meters optional