



Plug into tomorrow!

Harmony Chargers are “No Compromise” DC fast Chargers for highways, commercial fleets and busy urban locations. It is time to Plug into most advanced E-Mobility solutions for automotive.

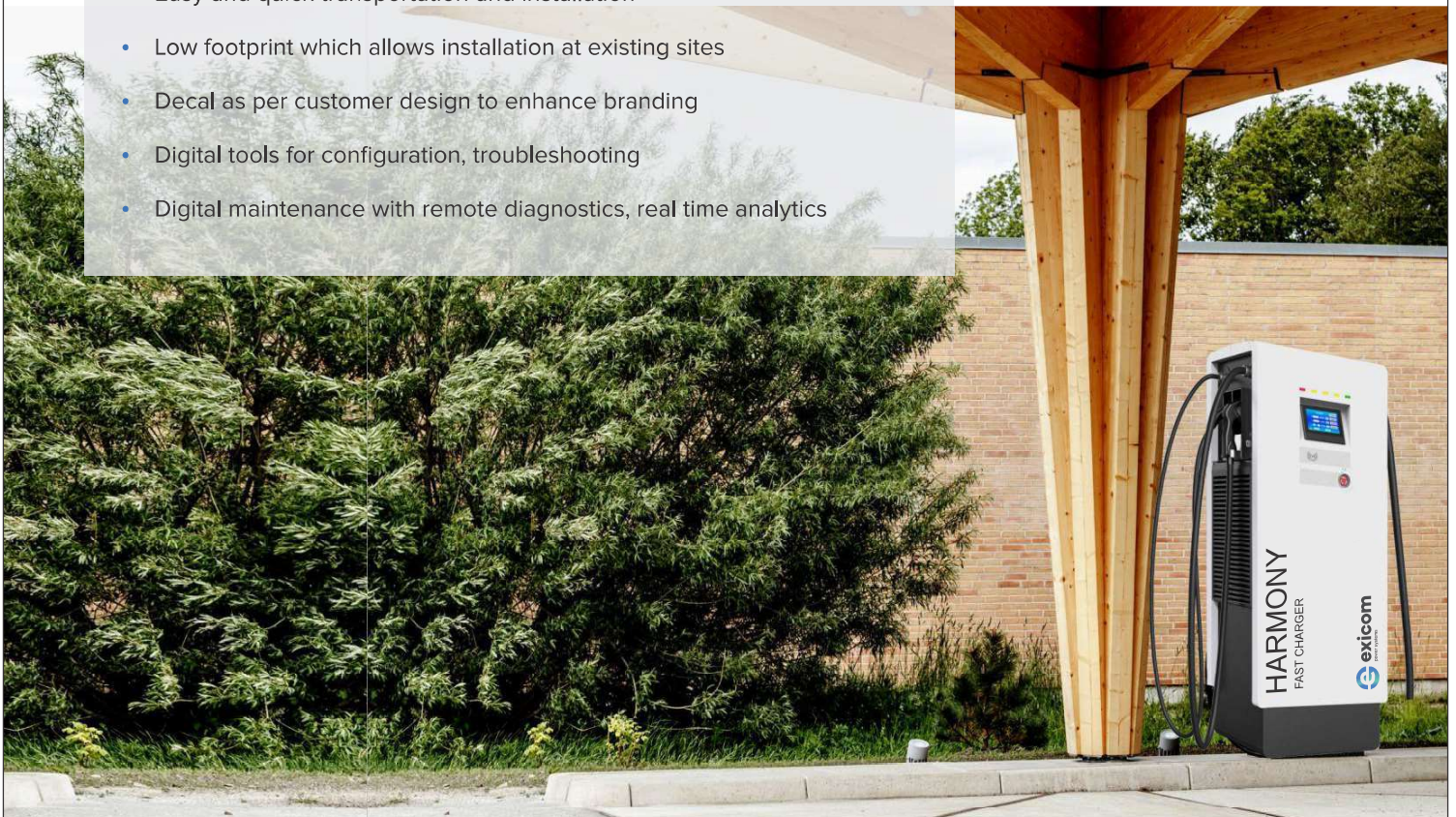
At Exicom we have leveraged 25 years of experience of power electronics expertise to bring you industry leading DC charging solutions for the whole world and provide serious advantages around footprint, scalability, flexibility while withstanding high usage in harsh environments.

Harmony Series High Voltage Chargers

Commercial organizations & individual consumers are increasingly moving towards EV's and Harmony DC EV Chargers is the right solution to cater to market demand for fast charging needs. It is an integrated charger with power and dispenser section in one cabinet with choice of up to 3 outputs (2 DC and 1 AC) and choice of modular power core in multiple of 30kW. It is powerful, flexible, futuristic and designed around the user.

Key Features:

- Harmony Charger range - flexible power from 30 kW – 240 kW
- Multiple charging protocols for CCS2/ Chademo and GB/T
- Simultaneous use of 3 guns
- High efficiency >95% leading to low TCO
- Wide temperature working range (de-rating > 55 degree Celsius)
- Support for all types of EV's – charging for up to 1000V battery
- Dynamic power allocation
- 250A max current per DC output, 22kW max output for AC output
- Support for OCPP 1.6 and its integration to required CMS
- Easily accessible 5 m cables providing long reach.
- 7" touch screen for user interface
- Easy and quick transportation and installation
- Low footprint which allows installation at existing sites
- Decal as per customer design to enhance branding
- Digital tools for configuration, troubleshooting
- Digital maintenance with remote diagnostics, real time analytics



Harmony DC Platform

Standardized, modular and scalable platform for public charging

High tech controllers programmed with multi-charging protocols - CCS 2, CHAdeMO, GBT & AC Type2

Firmware to support single & dual socket vehicle charging

Operator Safety Prioritization
de-energize conductive parts on door open, smoke detection & earth leakage alarms

Leading AC-DC converter design – High efficiency, and modular. Weight rated for single person lift
Designed for harsh electrical and climatic environments

Futuristic design with wide voltage output range of 200-1000V to support all types of EV's

Standardized components base for cost optimization and fast development process

System designed for easy serviceability

Interactive user interface touch screen with easy-to-follow instructions
Customizable from 7" to 15" LCD screens

4G connected, Real time charging control (Monitoring, software update, diagnostics) & smart charging

Industry leading footprint to allow more options of charger installations in demanding locations



Technical Specifications - 60 kW & 82 kW EV Chargers

	60kW	82kW		
Power Output	DC Output Voltage Rating	200 - 1,000 Vdc		
	Outlet 1	CCS-2 125 A or 200 A , GB/T 125 A or 200 A, CHAdeMO 125 A		
	Outlet 2	CHAdeMO 125 A	AC Type-2 22 kW(Outlet 3)	
	DC Power Class	FC 60 (60 kW / 200 A)		
	Simultaneous EV charging qty.	1 or 2	1,2 or 3	
Mains Input	Input Voltage (nominal / Range)	380/400/415 Vac / 320 Vac – 520 Vac		
	Network Connection	TN-S		
	AC Power Rating	93 A, 65 kVA @ 400 Vac	125 A, 87 kVA @ 400 Vac	
	Input Frequency Range	45 - 65 Hz		
	Conversion Efficiency	≥ 95% (peak)		
	THD(I)	< 5 %		
	Power Factor	> 0.98		
	Inrush Current (Instant Impulse Current)	< 100 A		
	Leakage Current	< 10 mA		
	Short Circuit Current Rating	25 kA		
	Standby Power @ nom. voltage	< 24 W normal standby mode / < 4 W super standby mode		
	Protection and Safety	Surge Protection	Integrated - IEC 61000-4-5	
		Over Current	DC output: 101A @ 300V per 30 kW module	
Under Voltage / Over Voltage		AC Input: < 280 / > 530 Vac phase to phase		
Over Temperature		Auto de-rated above 55 °C ambient		
Residual Current (Leakage)		< 60 mA		
Over Voltage Category		III		
User Interface and Comms	Display	7" TFT LCD touch screen		
	Support Language	English		
	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/B		
	Connectivity	Internet access via Ethernet (RJ45) / 4G LTE (EU)		
Mechanical	Ingress Protection	IP 54 acc. IEC 60529		
	Impact Resistance	IK10 acc. IEC 62262		
	Dimension (H*W*D)	1,850 * 650 * 510 mm		
	Weight	170 kg Approx.		
	Charging Cable Length	5 meters, 7 meters optional		
	Material	Texture Finish Powder Coating SECC		
	Mounting	Free Standing (may be bolted to floor)		
	Cooling	Forced Air (variable speed)		
	Environmental	Operating Temperature	-30 °C to 75 °C (linear de-rating above 55 °C)	
Storage Temperature		- 40 °C to 80 °C		
Altitude		2,000 meters (de-rating above 2,000 meters)		
Humidity (Non-Condensing)		5 % to 95 %		
Standards/ Certification	Safety	IEC 61851-1; IEC 61851-21-2; IEC 61851-23; IEC 61851-24; IEC 62196-1; IEC 62196-2; IEC 62196-3; IEC 61000		
	Other	ARAI (AIS 138 Part 2)		
	Vehicle Communication	DIN 70121, ISO 15118, CHAdeMO v1.2, GB/T 27930, IEC61851		
Quality	Mean Time Between Failure	> 150,000 hours		
	Mean Time To Repair	< 1 hour on arrival at site		
	Design Life	10 years*		
	Warranty	1 year* (standard). Extension available		

