



*TERRA CHARGE*

# Technical Specification

60kW DUAL GUN & 82kW TRIPLE GUN  
DC FAST EV CHARGER – REGULAR





Maximum Output Power Rating		60kW / 82kW
Model	TCI60/82DC2G	TCI60/82DC2G
	82kW DC – 3 Guns specific	CCS-2 x 2 guns + AC Type-2-22kW x 1 gun
Output	DC Output Voltage Rating	200 - 1000 Vdc
	Outlet Configuration	CCS-2 125A or 200A
	Max Output Current	200A
	Simultaneous Charging	Yes - 60kW-1 or 2 / 82kW 1,2 or 3
	DC Power Class	FC 60 (60 kW / 200 A)
Mains Input	Input Voltage (nominal)	380/400/415 Vac
	Input Voltage Range	320 Vac – 520 Vac
	Network Connection	TN-S
	AC Wiring	3-Phase (L1, L2, L3), N, PE
	AC Power Rating	~60kW 93A, 65kVA @ 400 Vac/~82kW 125A, 87kVA @ 400Vac
	Input Frequency (nominal)	50 / 60 Hz
	Input Frequency Range	45 - 65 Hz
	Conversion Efficiency	≥ 95% (peak)
	THD	< 5 % (Nominal Input & 50% ≤ load ≤ 100%)
	Power Factor	> 0.98 (Nominal Input & 50% ≤ load ≤ 100%)
	Inrush / Leakage Current	<100A /<10 mA
	Short Circuit Current Rating	25 kA
	Standby Power Mode	< 24/4 W (@nom/super. St.by mode)
Backup battery	~90 Minutes (Only for controllers)	



Protection and Safety	Surge Protection	Integrated - IEC 61000-4-5
	Over Current	DC output: 101A @ 300V per 30kW module
	Under Voltage	AC Input: < 280 Vac phase to phase
	Over Voltage	AC Input: > 530 Vac phase to phase
	Over Temperature	Auto de-rated above 55 °C ambient, Cut-Off at 75°C
	Over Voltage Category	III
	Residual Current (Leakage)	< 60 mA
User Interface and Comms.	Display	7" TFT LCD touch screen
	Support Language	English
	Emergency Switch	Available (red mushroom push button)
	Charge Option / User Auth	RFID, mobile app, OTP, QR Code
	Energy Metering	Included
	Visual Indication (LED)	Presence of Supply, State of Charging, Error
	RFID	MIFARE - ISO/IEC 14443A/B
	Connectivity	Internet access via Ethernet
	Modem	4G LTE
Communication Protocol	OCPP v1.6j	



Configuration	Software update	OTA (Over The Air) via OCPP TCI Server
	Control and Set up	OCPP v1.6j, local (passcode controlled) TCI Web portal
Mechanical	Ingress Protection	IP 54 acc. IEC 60529
	Impact Resistance	IK10 acc. IEC 62262
	Dimension (H*W*D)	1850 * 650 * 510 mm
	Weight	170 kg Approx.
	Charging Cable Length	5 meters (standard length)
	Material	Texture Finish Powder Coating SECC
	Mounting	Floor mounted (bolted to cemented raised 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, 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 years* (standard). Extended Warranty available



*TERRA CHARGE*