



TERRA CHARGE

Technical Specification

7.5 - 22 kW AC CHARGER



**Compact, stylish charger
for the modern home**

Minimum Output Power Rating		7.5 - 22kW
Model	TCI-7.5/22-ACTYPE-2	TCI-7.5/22-ACTYPE-2
Power Output	Charging Power	7.5 kW (1-ph), 11kW (3-ph), 22 kW (3-ph)
	AC Output	150 - 270 Vac (1-ph) or 340-460 Vac (3-ph)
	Connection point	IEC 62196-2 Type-2
	Mode of Charging	Mode-3
	Max. AC Output Current	32 A (7.5 kW), 16 A (11 kW), 32A (22 kW)
Mains Input	Input Voltage (nominal)	220/230/240 VAC (nom) or 380/400/415 Vac (L - L)
	Input Voltage Range	150 - 270 Vac or 340 - 460 Vac (L - L)
	Network Connection	TN-S
	AC Wiring	1 Phase / L 1, N, PE or 3-phase / L 1, L2, L3, N, PE
	3-ph charger use on 1-ph supply	Yes, 22 kW model derated to 7.4 kW (11 kW to 3.6 kW)
	Input Frequency (nominal)	50 / 60 Hz
	Input Frequency Range	45 - 65 Hz
	Leakage Current	< 3.5 mA
Standby Power@ nom. voltage	< 10 W	



Protection and Safety	Di-electric strength test	4,000 Vac (common mode) or 2,500 Vac (differential)
	Impulse Di-electric Withstand (1.2/50us)	6,000 Vac (common mode) or 4,000 Vac (differential)
	Insulated Test between isolated terminals	R > 100Mohm
	Over Voltage Category	III
	Residual Current	Integrated 6mA DC (to IEC 62955) + 30mA AC
	PEN open Fault Protection	Option for UK version
	Others	Over Current, Under/Over Voltage, Over Temperature, Gnd-N Voltage, Residual Current
User Interface and Comms.	Charge Option/ User Authentication	Auto start, via TCI Control mobile app. or 3rd party CMS
	Connectivity Options	Bluetooth or Internet access via WIFI
	Smart Home Integration	Amazon Alexa ; Google Home
	Visual Indication (LED)	Presence of Supply, State of Charging, Error
	Communication EVSE and CMS server	OCPP V 1.6 J (JSON)
	Energy Metering	Integrated (external MID optional)



Load Management	Manual Max Load Limiting	1A steps (via Spin Control app)
	Dynamic Management	Load Curtailment; Solar Export Control (TCI Net option)
	Load sharing	Up to 31 chargers TCI Net option)
Mechanical	Ingress Protection	IP 66 (Outdoor environment)
	Impact Resistance	IK10 acc. IEC 62262
	Dimension (H*W*D)	246 * 246 * 102 mm
	Weight	4 kg approx. (inc cable)
	Charging Cable Length	Tethered 5 meters
	Cable Storage	Wrap around charger body or optional separate prop
	Material: Polycarbonate	Polycarbonate+ ABS (UL94-V0)
	Mounting	Pedestal Stand or Wall
	Cooling	Natural Air
Environmental	Operating Temperature	Temp - 25°C to 55°C (full power)
	Storage Temperature	Temp - 40°C to 75°C
	Altitude	2,000 meters (de-rating above 2,000 meters)
	Humidity (non-condensing)	5 % to 95 %
Standards / Certification	Safety	IEC 61851-1
	Other	IEC 61851-21-2; IEC 62196-1; IEC 62196-2; IEC 61000; ARAI (AIS 138 Part 2)

