



# LCP-RTM50-75

DC Fast Charger

## Specifications

### Charging Station

Supply Input	3ø AC see last page for regional details
Output Power	50kW (2 x DC:DC modules) 75kW (3 x DC:DC modules)
Output Voltage	CCS: 150-920 VDC CHAdeMO: 150-500 VDC
Output Current	50kW: 134A * 75kW: 200A *
Supported Cables	CCS1 @ 200A, 6m with cable management CCS2 @ 200A, 6m with cable management CHAdeMO @ 125A, 6m with cable management
Outlet Configurations	CCS   CCS CHAdeMO   CCS
Simultaneous Charging	Yes
Ip Rating	IP65 (NEMA 3R)
Ik Rating	IK10 (Including HMI)
Efficiency	95%
Power Factor	>0.99
Total Harmonic Distortion	<5% THD
Maximum Operating Altitude	3000m (9842ft)
Accoustic Noise	Variable under load: < 65dB @ 1m max.
Operating Temperature	50kW: -35°C to +50°C (-31°F to +122°F) full power with no de-rating 75kW: -35°C to +50°C (-31°F to +122°F) de-rating applies above +40°C
Storage Temperature	-35°C to +70°C (-31°F to +158°F)
Electrical Protection	Over current, over voltage, under voltage, short circuit, surge protection, protective earth continuity monitor.
Enclosure Construction	Aluminium double skin
Dimensions	Footprint: 1998 (H) x 783 (W) x 309 (D) mm (78.6" x 30.8" x 12.1") Maximum points: 1998 (H) x 898 (W) x 450 (D) mm (78.6" x 35.3" x 17.7")
Weight	Installation: Up to 294kg with cable management (649lbs) Shipping: Up to 380kg depending on configuration (822lbs)

### Connectivity

Communication Protocol	OCPP v1.6J (ready for OCPP 2.0.1)
Network Connection	Cellular: 3G/4G Wired: Ethernet

### User Interface

Authentication Methods	RFID: MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC Plug & Charge (ISO 15118-2) Mobile application Free mode / AutoStart
Display	10.1" display with 4 control buttons

### Safety & Certification

Safety Features	RFID: MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC Plug & Charge (ISO 15118-2) Mobile application Free mode / AutoStart
Safety Compliance	10.1" display with 4 control buttons
Electromagnetic Compatibility Certification (Emc)	USA - FCC 47 CFR Part 15 B CANADA - ICES-003
Dual Dc Energy Meters	California - CDFD-DMS – NIST Handbook 44 †
Accessibility	Height requirements: US Americans with Disabilities Act and EN 301 549
Warranty	Standard 2-year warranty

\*Unless limited by cable type  
†Pending certification completion

### Optional

Branding	Customer branded vinyls Powder coating upon request
Metering	[DE-M] DC meter †
Payment Options	Credit card reader contactless or 3-in-1 (region dependent), field upgradeable (optional)

Status Indication	Charge state indicator lights
Cable Length	3.6m charging cables with no cable management
Warranty Extension	+1YR / +2YR / +3YR

# LCP-RTM50-75

## AC Grid Interface

### Specifications

#### Grid Interface

Item	USA (480VAC)	
Power Level	50kW	75kW
Voltage	480VAC 3ph (no neutral) +/-10%	
Frequency	60Hz +/-10%	
Nominal Current at Nominal Voltage Level	63A	95A
Maximum Current at Low Line Level (Nominal Voltage - 10%) and PF>0.99	70A	105A
Over Current Protection Device Required (OCPD) in Site Distribution Board	80A breaker recommended (required for supply cable protection)	125A breaker recommended (required for supply cable protection)
Fault Current Limiting Fuses In Site Distribution Board	Current limiting fuses or a UL/CE certified current limiting circuit breaker MUST be installed if available fault current exceeds 37.5kA.	
Residual Current Monitoring In Site Distribution Board (Optional)	If local regulation requires a residual current monitoring device, it must feature adjustable time delay and adjustable threshold.	
Under-Voltage Relay/Shunt Trip Relay In Site Distribution Board (Optional)	<p>The RTM range includes options for circuitry to locally isolate the charger's power circuit if the safety loop monitor connected to the door switches, tilt sensor, leak sensor or protective earth continuity monitor is triggered.</p> <p>Additionally, the charger can also include options to allow upstream isolations in the event of a safety loop trigger event by including an under-voltage relay coil or shunt trip module on the feeder circuit breaker in the site distribution board.</p> <p>Tritium chargers should only be installed by a licensed contractor and a licensed electrician, in accordance with all local and national codes and standards. This may include additional, lockable disconnect mechanisms within line of sight of the supplied equipment.</p>	
Reference Calculation Of Buried Cable Size For Ac Supply (Length of AC Cables and System Efficiency Should be Considered When Sizing Cable)	Single cores in buried duct:	
	6AWG Cu for L1,2,3 8AWG Cu for PE	3AWG Cu for L1,2,3 4AWG Cu for PE
	Multicore cable in buried duct:	
	4AWG Cu	2AWG Cu
Ac Supply Cable Size	Cable sizes must be calculated on a per site basis as length, burial/conduit method, insulation rating, soil type will all affect correct sizing.	