



Next Generation DC Fast Charger

- + Slim, compact, stylish
- + Modular design
- + Available in 50kW & 75kW
- + Liquid cooled & IP65 rated
- + 3rd party certified
- + Latest safety standards
- + Durable, low maintenance
- + Increased reliability
- + Brandable exterior
- + Whisper quiet operation mode
- + Eichrecht DE-M DC Meter Compatible

RTM 50kW/75kW Specifications

INNOVATING YOUR FUTURE



VARIANTS AVAILABLE

FEATURE	GOOD	BETTER	BEST
50KW OUTPUT	✓	✓	✓
75KW OUTPUT	✓	✓	✓
3RD PARTY UL CERTIFIED*	✓	✓	✓
3RD PARTY CE CERTIFIED*	✓	✓	✓
SINGLE PERSON LIFT FIELD REPLACEABLE MODULES	✓	✓	✓
RFID READER	✓	✓	✓
SEQUENTIAL CHARGING (A→B)	✓	✓	✓
DIGITAL LCD SCREEN	✓	✓	✓
CABLE LENGTH	3 METERS (9.8 FT)	6 METERS (19.6FT)	6 METERS (19.6FT)
CABLE MANAGEMENT		✓	✓
“PAY AS YOU GROW” UPGRADEABLE		✓ 50KW→75KW	✓ 50KW→75KW
SIMULTANEOUS CHARGING (A & B)		✓	✓
CHARGE STATE INDICATOR LIGHTS			✓
SENSOR PACKAGE (TILT, DOOR INGRESS)	OPTIONAL	✓	✓
CREDIT CARD READER WITH RFID SUPPORT (CHARGER INTEGRATED)	OPTIONAL	OPTIONAL	✓
CUSTOMER BRANDED VINYLs	OPTIONAL	OPTIONAL	✓
[DE-M] DC METER (EICHRECHT)	OPTIONAL [*]	OPTIONAL [*]	OPTIONAL [*]
WARRANTY	2 YEARS	2 YEARS	2 YEARS

*Pending certification completion



COMMON SPECIFICATIONS

SUPPLY INPUT	3ø AC see overleaf for regional details
OUTPUT VOLTAGE	Up to 920V
IP RATING	IP65
IK RATING	IK10 (Excluding HMI)
EFFICIENCY	95%
POWER FACTOR	>0.99
TOTAL HARMONIC DISTORTION	<5% THD
ACOUSTIC NOISE	Variable under load: 0dB - 65dB
OPERATING TEMPERATURE	-35°C to +40°C (-31°F to +104°F) sustained operation at full power Rated for operation to +50°C (+122°F) (de-rating applies)
STORAGE TEMPERATURE	-35°C to +70°C (-31°F to +158°F)
COMMUNICATION PROTOCOL	OCPP v1.6J
NETWORK CONNECTION	3G/4G/Ethernet for network
AUTHENTICATION METHOD	RFID: MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC
CREDIT CARD READER	Optional contact-less or 3-in-1 (if available, region dependent), field upgradeable
ELECTRICAL PROTECTION	GOOD: Over current, Over voltage, Under voltage, Short circuit BETTER, BEST: Over current, Over voltage, Under voltage, Short circuit, Surge protection, Protective earth continuity monitor
ENCLOSURE CONSTRUCTION	Aluminium double skin
DIMENSIONS	1998 x 850 x 309 mm (79" x 34" x 12")
WEIGHT	Up to 266kg with cable management (587lbs)
SHIPPING WEIGHT	Up to 320kg depending on configuration (704lbs)
ACCESSIBILITY	Meets US ADA, EN 301 549, DIN 18040 Height Requirements
SAFETY COMPLIANCE*	WORLDWIDE: CE USA, CANADA: cTUVus, NRTL Certified to UL 2202
EMC*	WORLDWIDE: EMC Directive Immunity: Class A Emissions: Class B USA, CANADA: FCC Immunity: Class A Emissions: Class B

*Pending certification completion

AC GRID INTERFACE

ITEM	WORLDWIDE: (400VAC / 415VAC)		USA: (480VAC)	
	50kW	75kW	50kW	75kW
VOLTAGE	400VAC 3ph (no neutral) +/-10%		480VAC 3ph (no neutral) +/-10%	
FREQUENCY	50Hz +/- 10%		60Hz +/- 10%	
NOMINAL CURRENT AT NOMINAL VOLTAGE LEVEL	76A	114A	63A	95A
MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE - 10%) AND PF>0.99	84A	114A	70A	105A
OVER CURRENT PROTECTION DEVICE REQUIRED (OCPD) IN SITE DISTRIBUTION BOARD	100A breaker recommended (Required for supply cable protection)	125A breaker recommended	80A breaker recommended (Required for supply cable protection)	125A breaker recommended
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 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 Veefil 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 CABLES)	Single cores in buried duct: 25mm ² Cu for L1,2,3 50mm ² Cu for L1,2,3 16mm ² Cu for PE 25mm ² Cu for PE		Single cores in buried duct: 6AWG Cu for L1,2,3 3AWG Cu for L1,2,3 8AWG Cu for PE 4AWG Cu for PE	
	Multicore cable in buried duct: 25mm ² Cu 50mm ² Cu		Multicore cable in buried duct: 4AWG Cu 2AWG Cu	
	Multicore cable direct buried: 25mm ² Cu 35mm ² Cu			
AC SUPPLY MAXIMUM 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.			

A U S T R A L I A • U S A • E U R O P E

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