



- + Easy to install
- + Liquid cooled
- + Low maintenance, easy to own
- + Cable management
- + 10" screen
- + CCS1 / CCS2
- + CHAdeMO
- + Brandable exterior
- + Optional credit card reader
- + IP65

RT175-S/175kW Specifications

INNOVATING YOUR FUTURE

R T 1 7 5 - S / 1 7 5 k W S P E C I F I C A T I O N S



USER UNIT

CONNECTORS	Single: CCS Dual: CCS and CHAdeMO		
CONNECTOR TYPE(S)	Worldwide: CCS2 or CCS2 and CHAdeMO		
	US & Canada: CCSI or CCSI and CHAdeMO		
OUTPUT VOLTAGE	200V - 920V DC		
OUTPUT CURRENT	CCS: up to 350A CHAdeMO: up to 200A		
IP RATING	IP65 (NEMA 3R)		
IK RATING	IK10 (IK8 Screen)		
EFFICIENCY	98.5% at full load (350A, 500V)		
OPERATING TEMPERATURE	-30°C to 50°C (-22°F to 122°F)		
STORAGE TEMPERATURE	-55°C to 80°C (-67°F to 176°F)		
CREDIT CARD READER	Optional		
RFID READER	Fitted standard		
DIMENSIONS	2,011mm (6'7") (H) x 993mm (3'3") (W) x 531mm (1'9") (D) Note: Width excludes plugs		
WEIGHT	277kg (6111b)		
AUTHENTICATION / PAYMENT	RFID only OR Credit Card Reader with RFID		
CABLE REACH	4.1m (13'5")		
CABLE MANAGEMENT	Fitted standard		
COMPLIANCE	UL NRTL certification FCC Class A		

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ISOLATED POWER UNIT

INPUT VOLTAGE	Worldwide (400VAC): 400VAC 3ph ±10% 50Hz ±10% Derate the power below -10% to -15% 270A nominal 300A maximum (at low line level)			
	US & Canada (480VAC): 480VAC 3ph ±10% 60Hz ±10% Derate the power below -10% to -15% 225A nominal 250A maximum (at low line level) Canada (600VAC): 600VAC 3ph ±10% 60Hz ±10% Derate the power below -10% to -15% 180A nominal 200A maximum (at low line level)			
INPUT OVERVOLTAGE CATEGORY	Category III			
OUTPUT VOLTAGE POWER	950V DC Up to 178kW			
SOLATION BETWEEN AC MAINS & EV	Reinforced Isolating tranformer with double/reinforced insulation			
EFFICIENCY	96% at full load			
POWER FACTOR	>0.99			
TOTAL HARMONIC DISTORTION (THD) <5%			
OPERATING TEMPERATURE	-10°C to 50°C(14°F to 122°F)5% to 95% RH Non Condensing (without optional cold kit)-30°C to 50°C(-22°F to 122°F)5% to 95% RH Non Condensing (with optional cold kit)			
STORAGE TEMPERATURE	-55°C to 80°C(-67°F to 176°F) 5% to 95% RH Non Condensing			
NETWORK CONNECTION	Ethernet to User Unit			
WEIGHT	1004kg (2213.5lb)			
DIMENSIONS	2,110mm (6'11") (H) x 660mm (2'2") (W) x 1,060mm (3'6") (D)			
IK RATING	IK10			
PRATING	IP55 (NEMA 3R)			
WIRELESS UPLINK	3G/4G cellular communications with failover redundancy			
WIRED UPLINK	Ethernet			
POWER SUPPLY	Battery-backed UPS functionality for reliable telemetry at all times			
SOFTWARE SUPPORT	OCPP v1.6J support for management and billing			
SECURITY	SSH with EC keys and unique password for manufacturer diagnostics			
POWER CONTROL	Supports OCPP charging profiles (OCPP v1.6J)			
CONTROL PLATFORM	Included in the Power Unit			
POWER SHARING (Optional)	Configurable site-level power demand management			

EMC

MC	Worldwide:	EMC Directive	Immunity: Class A	Emissions: Class A
	USA:	FCC	Immunity: Class A	Emissions: Class A

AC GRID INTERFACE

VOLTAGE	Worldwide (400VAC): 400VAC 3ph ±10%		
	US & Canada (480VAC): 480VAC 3ph ±10%		
	Canada (600VAC): 600VAC 3ph ±10%		
FREQUENCY	Worldwide: 50Hz ±10%		
	US & Canada: 60Hz ±10%		
MAXIMUM CURRENT AT LOW LINE LEVEL (Nominal voltage -10%) AND PF = 0.99	Worldwide (400VAC): 300A		
	US & Canada (480VAC): 250A		
	Canada (600VAC): 200A		
OVER CURRENT PROTECTION	Worldwide (400VAC): 300A Circuit Breaker (recommended)		
DEVICE REQUIRED (OCPD) IN SITE DISTRIBUTION BOARD	(The circuit breaker nominal rating MUST not exceed 300A in order to maintain primary protection for the LV transformer in the IPU)		
	(If a 350A circuit breaker is used the buried cable gauge MUST be increased)		
	US & Canada (480VAC): 320A UL Listed Circuit Breaker (recommended)		
	(The circuit breaker nominal rating MUST not exceed 320A in order to maintain primary protection for the LV transformer in the IPU)		
	Canada (600VAC): 250A UL Listed Circuit Breaker (recommended)		
	(The circuit breaker nominal rating MUST not exceed 250A in order to maintain primary protection for the LV transformer in the IPU)		
FAULT CURRENT LIMITING FUSES	Current limiting fuses or a UL recognised current limiting circuit breaker MUST be instal if available fault current exceeds 18kA		
	Note: The IPU has an option to upgrade the SCCR to 100kA		
RESIDUAL CURRENT MONITORING IN SITE DISTRIBUTION BOARD (Optional)	If a residual current monitoring device is required by local regulation it shall be of time delay type		
UNDER-VOLTAGE RELAY IN SITE DISTRIBUTION BOARD (Optional)	The isolated power unit includes circuitry to locally isolate the charger's power circuit if t safety loop monitoring the door switches and tilt sensors is triggered.		
	The IPU can also be isolated upstream in the event of a safety loop trigger event by including an under-voltage relay coil on the feeder circuit breaker in the site distribution board.		
	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 to meet curren NEC and NFPA 70E requirements. This may include additional, lockable disconnect mechanisms within line of sight of the supplied equipment.		
MINIMUM BURIED CABLE SIZE FOR AC LINK (Length of AC link cables and system	Worldwide (400VAC):		
	Twin 70mm ² Cu for L1, L2, L3 Single 70mm ² Cu for PE		
efficiency should be considered when sizing cables)	US & Canada (480VAC):		
	Twin 3/0 Cu for L1, L2, L3 Single 3/0 Cu for PE		
	Canada (600VAC):		
	Twin 1/0 Cu for L1, L2, L3 Single 1/0 Cu for PE		
MAXIMUM LENGTH OF BURIED CABLES FOR MINIMUM AC LINK CABLE SIZE SPECIFIED	200m (656ft) (To maintain feeder voltage drop below 3%)		

Note: This specification is correct at the date of release (listed at the bottom). For the most recent specification, see the website.

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