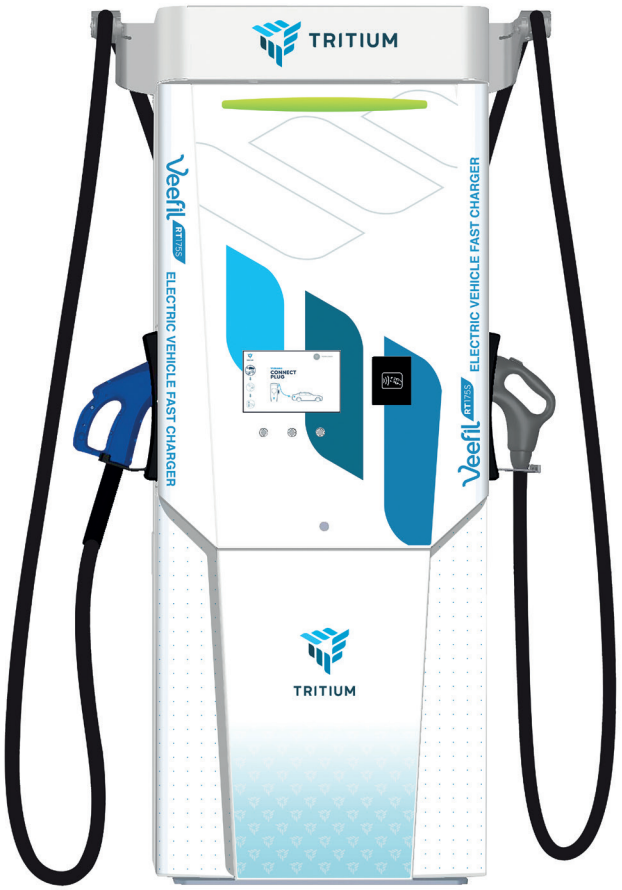
DATA SHEET

TRITIUM

Veefil RT
(USA Specifications)

175kW DC High Power Charger

A flexible hardware configuration to enable high power charging at any site.



- Easy to install
- Liquid cooled
- Low maintenance, easy to own
- Cable management
- 10" screen
- CCS1
- CHAdeMO
- Brandable exterior
- Optional Credit Card Reader
- IP65

TRI125-175S-00
RT175-S

175kW DC

Single Cable

Dual Cable

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Veefil RT 175-S

SPECIFICATIONS

USER UNIT (USA)

CONNECTORS	Single: CCS | Dual: CCS and CHAdeMO
CONNECTOR TYPE(S)	CCS1 or CCS1 and CHAdeMO
OUTPUT VOLTAGE	CCS: 200V – 920V DC CHAdeMO: 200 – 500V DC
OUTPUT CURRENT	CCS1 up to 350A CHAdeMO up to 200A
IP RATING	IP65
IK RATING	IK10 (IK8 screen)
EFFICIENCY	98.5%
OPERATING TEMPERATURE	-31°F to 122°F
STORAGE TEMPERATURE	-67°F to 176°F
CREDIT CARD READER	Optional
RFID READER	Fitted standard
DIMENSIONS	6'5" x 3'5" x 1'9"
WEIGHT	573lbs
SHIPPING WEIGHT	Estimated at >110lbs over installed weight
AUTHENTICATION / PAYMENT	RFID Only OR optional Credit Card Reader with RFID
CABLE LENGTH	17' (14'1" Reach)
CABLE MANAGEMENT	Fitted standard
COMPLIANCE	In progress*

POWER UNIT (USA)

INPUT VOLTAGE	480VAC 3ph ±10% 60Hz ±10% Derating applied from -10% down to -15% 225A
INPUT OVERVOLTAGE CATEGORY	Category III
OUTPUT VOLTAGE	950V DC, 178kW
ISOLATION BETWEEN AC MAINS AND EV	Reinforced insulation
EFFICIENCY	96.1%
POWER FACTOR	>0.99
TOTAL HARMONIC DISTORTION (THD)	<5%

User Unit and Power Unit image concept only

ABOUT THE TRITIUM VEEFIL-RT RANGE

Veefil-RT from Tritium is a range of proven, reliable electric vehicle chargers with an attractive design that are easy to own and operate. Tritium's patented liquid-cooling system ensures maximum product life with minimum maintenance. Offered at 50kW or 175kW, the RT range enables fast and high-power charging with the most flexible hardware configuration in its class.

***Note: Certification and compliance in progress, the datasheet will be updated on completion.**

tritium.com.au Australia • USA • Netherlands
Email: enquiries@tritium.com.au Phone: (USA) +1 310 961 5299

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Veefil RT 175-S

SPECIFICATIONS CON'T

POWER UNIT (USA)

OPERATING TEMPERATURE	-31°F to 122°F 5% to 95% RH Non Condensing
STORAGE TEMPERATURE	-67°F to 176°F 5% to 95% RH Non Condensing
NETWORK CONNECTION	Ethernet
WEIGHT	1,764lbs
SHIPPING WEIGHT	Estimated at >176lbs over installed weight
DIMENSIONS	6'6" x 1'11" x 3'3"
IK RATING	IK10
IP RATING	IP55
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.

EMC (USA)

EMC	FCC Immunity: Class A Emissions: Class A

AC GRID INTERFACE (USA)

VOLTAGE	480VAC 3ph ±10%
FREQUENCY	60Hz ±10%
MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE -10%) **AND PF = 0.99**	250A
OVER CURRENT PROTECTION DEVICE REQUIRED (OCPD) IN SITE DISTRIBUTION BOARD	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)

With the flexibility of different colors and branding design, the Veefil-RT 175-S is easily adapted to suit your corporate image.

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SPECIFICATIONS CON'T

AC GRID INTERFACE (USA)

FAULT CURRENT LIMITING FUSES IN SITE DISTRIBUTION BOARD	Current limiting fuses or a UL recognized current limiting circuit breaker MUST be installed if available fault current exceeds 18kA
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 chargers power circuit if the 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 current 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 efficiency should be considered when sizing cables)	Twin 3/0 Cu for L1, L2, L3 Single 3/0 Cu for PE
MAXIMUM LENGTH OF BURIED CABLES FOR MINIMUM AC LINK CABLE SIZE SPECIFIED	656ft (To maintain feeder voltage drop below 3%)

ABOUT TRITIUM

Tritium is committed to your electric vehicle charging success. Tritium offers a flexible, responsive and dedicated approach to electric vehicle charging networks around the world. Established in 2001, and backed by government and private investors, Tritium has a growing global presence with installations in over 30 countries and offices in three continents.

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