



RT175-S/**175kW**

OUR INNOVATION



# YOUR FUTURE INTO E-MOBILITY

**The RT175-S High Powered DC vehicle charger, with isolated power unit, allows for continuous 175kW operation at up to 104°F/40°C. The compact and unquestionably futuristic industrial design is ideal for high population areas and can just as easily be adopted for highway rest stops, fuel stations, municipal installations, utilities, fleet, hospitality, education, destination centres as well as heavy infrastructure use cases such as mining and ports.**

The patented liquid cooling technology is exceedingly durable over a wide range of environmental conditions, including high and low temperatures, as well as mitigating against dust ingress, humidity, and corrosive conditions. Compatible with all electric vehicles using the CCS and CHAdeMO standards, this charger satisfies output voltage requirements up to 920V DC, with output of up to 350A via CCS1/CCS2 (200A via CHAdeMO) connectors with long reach cable management. The 175kW charger has an integrated safety loop with tilt sensor and offers an optional escutcheon panel with interlocking isolator for augmented safety within the heavy infrastructure sector.



The lightweight charger has a correspondingly small footprint. This hallmark design feature of Tritium's architecture makes it well suited to a wide range of installation sites. Optional features include cold weather kit for operation down to -22°F/-30°C, increased SCCR to 100kA for grid connection with high available fault currents, as well as options to support site power management and load balancing for multiple charger sites. The RT175-S represents a cost-effective solution; easy to install, own, and operate, thereby providing the earliest possible return on investment.

The RT175-S is equipped with Tritium's market validated implementation of ISO 15118 Plug and Charge. Plug and Charge is a communications protocol that enables electric vehicles and charging equipment to communicate, be authenticated, and transact seamlessly via the charging cable. Additional support for credit card and traditional RFID based payments gives owners / operators the flexibility of easily integrated alternative payment models. The optional credit card payment system supports both fixed price charging sessions and pre-authorised/post-settlement options, where unit-based pricing can be applied against either elapsed time or kWh consumed.

RT175-S represents an economically viable solution for sites where a limited number of chargers are required, whilst still providing Tritium's highly sought-after mix of liquid cooling and IP65 sealed system, which prevents dust and water ingress. These are coupled with Tritium's famously large and well-lit customisable branding surfaces that facilitate clear brand messaging and easy visual location of your chargers, as well as promoting customer loyalty and highlighting public stewardship.





# FEATURES & BENEFITS



## Key Features:

- Equipped with ISO 15118 Plug and Charge technology.
- Patented liquid-cooled technology offering the highest ingress protection.
- IP65 rating with sealed electronics enclosure.
- Durable and robust metal framework – IK10 (HMI IK8).
- 3G / 4G wireless communication.
- Effortless OCPP integration.
- 350A CCS1/CCS2 and 200A CHAdeMO connectors with long reach cable management.
- Credit card reader with several payment model options (including Cloud API).
- Integrated safety loop with tilt sensors and door switch.
- High output, continuous 350A charging without the need for liquid cooled cable.
- Wide voltage range 200V – 920V DC.
- Low power mode when charger is on idle.
- Power Unit with integrated reinforced isolating transformer.
- AC link distance of up to 200m.
- Compatible with TN or TT earthing systems for increased site installation flexibility.
- Surge protection from lightning strikes with integrated SPDs on AC and DC links.
- User Unit features extra low voltage power supply for increased user safety.

## Optional Features:

- Ability to increase SCCR to 100kA for grid connection with high available fault currents.
- Escutcheon panel with interlocking and pad lockable isolator for added safety.
- Cold weather kit for operation down to -22°F/-30°C (standard offering 14°F/-10°C).
- Site power management and load balancing for multiple charger sites.
- Fibre comms for increased distances between IPU and UU of 200m+.

## Unique Benefits:

- Cutting-edge technology engineered for reliability across a wide range of grid voltages – 400V 50Hz, 480V 60Hz and the only charger on the market designed for direct connection to 600V 60Hz networks.
- Optimal functionality in a wide range of environmental conditions with reduced set-up costs and faster installation time.
- Reduced wear on internal components for maximum hardware lifespan with minimum maintenance.
- Effortless connect, pay, and start.
- Universal language through its simple and intuitive 10.1" HMI.
- Robust construction with option for delivery without cables, allowing for custom heavy vehicle cable integration.



# CUSTOMER CARE



Tritium has industry leading technology expertise and global production capability in the EV Charging space. This allows an end-to-end experience extending from our world-class interoperability test centres through to our manufacturing, dedicated customer care and onboarding teams, as well as our certified training modules and technical support personnel. All of this is underpinned by Tritium’s superior customer service.

Whether you are interacting with our dedicated 24/7 customer care, our onboarding engineers and technicians, or our cloud-based management platform “myTritium”, we strive to remove the complexity and costs of managing your DC fast charging network. myTritium facilitates the management of chargers with ‘live’ chat functionality, allowing direct interaction with Tritium support teams. Our powerful data interaction tool Pulse enables a single ‘Pane of Glass,’ providing real-time insight, data analytics and reporting on the usage and status of your DC fast charging network. Through the combination of these advanced technologies, Tritium sees 95% of service requests diagnosed remotely and 75% resolved without the need for onsite intervention.

Pulse expands on the basic levels of data available through OCPP and allows further insights and details

to achieve greater network reliability. Pulse provides real-time visibility to monitor charger readiness and offers detailed tracking across your network. Pulse offers flexible analytics and through its intuitive design allows you to classify your network by name, date, time, status, charging station, energy delivered, usage and connectivity statistics (and much more) through graphs and visuals. All of Tritium’s DC charging hardware is validated, measured, and tested against the latest OCPP specification to ensure seamless communication.

Tritium’s accredited and certified training modules have been developed to ensure Charge Point Operators can significantly reduce service calls. Therefore, performance on charging stations and networks is reliable, resilient, and robust. This combination provides customers with superior EV charging experience, promoting loyalty and enhanced customer satisfaction.

# DATA MANAGEMENT & TRANSPARENCY



As a leading-edge DC charging technology solutions partner, we provide proprietary data advantages, data management, data transparency and insights that facilitate studies on tailored charging demand profiles. These insights can be fed into charge frequency, energy consumed, charge events, usage patterns, operational optimisation, preventative maintenance, and grid information.

With Tritium DC chargers deployed globally across a diverse range of markets, we have seen our customers leverage these high-fidelity and richly detailed datasets. These data analytics and management capabilities have enabled charger network operators to take full advantage of improved customer understanding, data integration and increased their ability to drive monetisation. When successfully implemented, this has led to a rapid reduction in total cost of ownership and improved return on investment.





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