RT50/**50kW**

OUR INNOVATION

YOUR FUTURE INTO DC FAST CHARGING

The future of transportation is electric, and at Tritium we have strategically leveraged our more than 20 years of electric vehicle (EV) engineering innovation and expertise to bring you the RT50/50kW. Our award-winning, cutting-edge DC fast charger offers superior performance, durability, and reliability with the world's smallest footprint.

Scalable to suit a wide variety of installation options, Tritium's 50kW charger is compact, allowing you to make the most of your site through maximizing the number of parking spaces, while still providing ample real estate on the unit to clearly display your brand. Equipped with our patented liquid-cooled technology to mitigate the effects of dust ingress, humidity, and corrosion, the certified IP65 ingress protection level makes cleaning easy with a hand-held hose. Wear and tear on internal units is significantly reduced, ensuring maximum hardware lifespan with minimum maintenance. Lightweight but strong, easy to install, cost-effective, and backed by our specialist 24/7 customer care, the RT50 is the smart EV DC fast charger of the future.

The charger's small footprint and its scalability enable a vast range of deployment options such as: shopping centres; retail outlets; multi-story car parks; department and convenience stores; restaurants and dining establishments; municipal and national parks; tourist attractions; sporting facilities; schools; and rest centres. The charger is compatible with both domestic and commercial EVs' using the CCS and CHAdeMO standards and Tritium regularly deploys routine software updates to ensure continued compatibility with all new EVs.

Award-winning and recognized in the market for its distinguished features, reliability, and uptime, the charger offers customers enduring confidence both in the product and our ability to ensure it stays at the forefront of the EV revolution.

The RT50 is equipped with Tritium's market-validated ISO 15118 Plug and Charge which is supported through OCPP1.6j with extensions, enabling EVs 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 the flexibility of easily integrated alternative payment methods. The credit card system supports both fixed-price charging sessions and pre-authorized/post-settlement options, where unit-based pricing can be applied against either elapsed time or kWh consumed.

The unit's lightweight construction and small footprint make it easy to install without the need for cranes or other heavy equipment, and it does not require large concrete foundations. It can be installed with minimal disruption to site operations, and, in many cases, the small footprint enables installation within present architecture and infrastructure configuration.

The RT50 charger enclosure offers a unique opportunity for branding the units to match your visual identity with an impressive amount of space for you to display your branding, ensuring high visibility and instant recognition. The RT50 also features LED downlights that, in addition to offering a measure of security, clearly illuminate the branded panels. Combined with our decals (tailor-made to your specifications), this provides a competitive edge, enables customer loyalty, and helps to heighten public awareness of your organization's support for sustainability, and reducing greenhouse gas emissions and pollution.

Key Features:

- Smallest footprint of any EV DC fast charger on the market
- Light yet robust construction enabling installation without the requirement for heavy equipment (such as cranes) or extensive concrete works
- Ease and speed of installation means that benefits are realised more quickly for faster Return on Investment (ROI)
- Equipped with ISO 15118 Plug and Charge technology for hassle-free authentication and payment
- Patented liquid-cooled technology providing the highest ingress protection rating (IP65) with sealed electronics enclosure
- Slim and compact form with contemporary design
- Durable and robust metal framework – IK 10 (HMI IK8) – covered by a lightweight but sturdy and vandal-resistant plastic shell
- Tailor-made front and back decals to your design specifications to enhance your brand and enable customer loyalty
- Front and back LED downlights that illuminate your branding
- Increased operating temperature range (-350C/-310F to -500C/1220F)
- 3G/4G wireless communication
- Effortless OCPP integration
- 125A CCS1/CCS2 and 125A CHAdeMO connectors
- Continuous 125A charging without the need for liquid-cooled cable
- All-in-one unit, with reinforced isolating transformer
- Credit card reader with several payment model options (including Cloud API)
- Extra low voltage power supply for increased user safety
- Surge protection from lightning strikes with integrated SPDs
- Intuitive Human-Machine Interface (HMI) layout with clear icon displays for ease of operation

Unique Benefits:

- World's smallest footprint
- Short enough to fit in a multi-story car park – 2,000mm (6'7") (H)
- Small enough to fit into existing sites – 750mm (2'6") (W) x 330mm (1"1") (D)
- 165kg (364lb) (weight) allows reduced set-up costs and faster installation times
- Cutting-edge technology engineered for reliability and a wide range of grid voltages – 400V 50Hz, 480V 60Hz
- Optimal functionality in a wide range of environmental conditions
- Increased site location options boosting car park potential
- Reduced wear and tear on internal components for maximum hardware lifespan with minimum maintenance
- Effortless pay and connect – first time, every time

CUSTOMER CARE

DATA MANAGEMENT & TRANSPARENCY

Tritium has industry-leading capability and knowledge to extend a holistic experience from world-class innovative interoperability test centres through to dedicated customer onboarding team(s), certified training, and technical support, all underpinned by our commitment to delivering 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's highly trained and experienced support teams. Our powerful data interaction tool, Pulse, enables a single 'pane of glass' view, 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 requiring onsite intervention.

Pulse expands on the basic levels of data available through OCPP and allows further insight and detail of your network to achieve greater reliability. Pulse provides real-time visibility to monitor charger readiness and offers detailed tracking across your network, as well as flexible analytics. Through graphs and visuals, its intuitive attributes allow you to classify your network by name, date, time, status, charging station, energy delivered, utilization, connectivity statistics, and more. Tritium's DC fast charging hardware is validated, measured, and tested against the latest OCPP specification for seamless communication.

Our high level of customer service and our accredited and certified training significantly reduce service calls, drive early adoption, and provide an instant platform for resolution.

As a leading-edge technology solutions partner for EV DC fast charging assets, we have proprietary data advantages and insights that facilitate studies on charging demand profiles. Insights can be fed into charge frequency, energy consumed, charge events and usage patterns.

Tritium DC fast charging assets are deployed globally in a wide range of different market maturities that provide high-fidelity and rich data insights for network operators. Data analytics and management enable network operators to take advantage of data integration and data monetization to reduce total cost of ownership.