

# DCFC 50kW Fast Charger

The **DCFC 50kW from Blink** is a reliable and robust electric fast charger with an attractive design that is easy to own and operate. It's patented liquid-cooling system ensures maximum product life with minimum maintenance.

## Benefits

- Liquid cooling
- Slim, compact, and stylish design
- Reduced installation cost
- Increased reliability
- Durable UV resistant exterior
- Low maintenance
- Blink Network and OCPP integration

## Product Details

|                               |                                                                              |
|-------------------------------|------------------------------------------------------------------------------|
| <b>Connectors</b>             | Connectors CHaDeMO and CCS (Type 1 or 2)                                     |
| <b>Power</b>                  | Up to 50kW                                                                   |
| <b>Supply Input</b>           | 380–480 V AC 3Ø                                                              |
| <b>Supply Frequency</b>       | 50–60 Hz                                                                     |
| <b>IP Rating</b>              | IP65                                                                         |
| <b>Efficiency</b>             | >92%                                                                         |
| <b>Power Factor</b>           | 0.99                                                                         |
| <b>Operating Temperature</b>  | -35°C to 50°C / -31° F to +122° F                                            |
| <b>Network Connections</b>    | 3G and Gigabit Ethernet                                                      |
| <b>RFID</b>                   | MIFARE ISO/IEC14443A/B, ISO/IEC15693<br>ISO/IEC18000-3, FeliCa, NFC, EMV 2.0 |
| <b>Communication Protocol</b> | Blink Network, OCPP 1.5 and 1.6J                                             |
| <b>Weight</b>                 | 165 kg                                                                       |
| <b>Electrical Protection</b>  | Short circuit; Over voltage: RCD                                             |
| <b>Dimensions</b>             | 2000(H) × 750(W) × 330(D) mm                                                 |
| <b>Freight</b>                | 24 units per 20' container                                                   |
| <b>Certification</b>          | CE, UL, CHAdeMO, RCM, FCC, IC                                                |
| <b>Ingress Protection</b>     | IP65, Nema 3R                                                                |



# DCFC 75kW Fast Charger

The **Blink DCFC 75kW** system is ready to serve the EVs of today and tomorrow with a balance of flexibility, power and speed in a compact 75kW DCFC solution. With a small footprint that makes it perfect for any location, the 75kW DCFC system offers power and flexibility in a smart, durable and reliable package.

## Benefits

- Slim, compact, stylish
- Modular internal design for easy maintenance
- Liquid cooled for quiet and cool operation
- CSS or CHAdeMO standards
- Integrated door and tilt safety sensors
- Durable, low maintenance
- Ethernet & 3G/4G wireless communication
- IP65 rated enclosure ensures power and performance in a wide range of conditions and locations
- Driver friendly with cable management and 10" LCD screen

With unique and innovative safety and design features, the DCFC 75kW is designed for performance and ease of use for drivers and hosts.



\*The product image shown is for illustration purposes only and may not be an exact representation of the product.

# DCFC 75kW Specifications

| UNIT                       |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| CONNECTORS                 | CCS1/2 200A, CHAdeMO 125A                                                                                                     |
| CABLE LENGTH               | Standard: 3m length - no cable management<br>Option: 6m length - cable management included                                    |
| OUTPUT POWER               | Up to 75kW Up to 920V Up to 188A                                                                                              |
| SUPPLY INPUT               | 3ø AC see overleaf for regional details                                                                                       |
| SUPPLY FREQUENCY           | 50-60 Hz +/-10%                                                                                                               |
| IP RATING                  | IP65                                                                                                                          |
| IK RATING                  | IK10 (Excluding Screen)                                                                                                       |
| EFFICIENCY                 | 95%                                                                                                                           |
| POWER FACTOR               | >0.99                                                                                                                         |
| TOTAL HARMONIC DISTORTION  | <5% THD                                                                                                                       |
| MAXIMUM OPERATING ALTITUDE | 2000 m (6561')                                                                                                                |
| OPERATING TEMPERATURE      | -35°C to 40°C (-31°F to 104°F) sustained operation at full power<br>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,<br>FeliCa, NFC                                                   |
| CREDIT CARD READER         | Optional Contact-less or 3-in-1 (region dependent)                                                                            |
| ELECTRICAL PROTECTION      | Over current, Over voltage, Under voltage, Short circuit, Surge protection,<br>Protective earth continuity monitor            |
| DIMENSIONS                 | 1998 x 850 x 309 mm (79" x 34" x 12")                                                                                         |
| WEIGHT                     | 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                                                                       |

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |
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| <b>OPTIONS</b>                                                                    | <ul style="list-style-type: none"> <li>• Simultaneous ready (dual EVSE)</li> <li>• Eichrecht DE-M Certified DC Meter*</li> <li>• 10" LCD display</li> <li>• Tilt Sensor upstream disconnect</li> <li>• Door Ingress Sensor upstream disconnect</li> <li>• 6m Cables with Cable Management</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |
| <b>SAFETY COMPLIANCE*</b>                                                         | WORLDWIDE: CE<br>USA: cTUVus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                    |
| <b>EMC*</b>                                                                       | WORLDWIDE: EMC Directive Immunity: Class A Emissions: Class B<br>USA: FCC Immunity: Class A Emissions: Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |
| <b>AC GRID INTERFACE</b>                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |
| <b>ITEM</b>                                                                       | <b>WORLDWIDE: (400VAC/415VAC) 75 KW</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>USA: (480VAC) 75 KW</b>                                         |
| <b>VOLTAGE</b>                                                                    | 400VAC 3ph (no neutral) +/-10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 480VAC 3ph (no neutral) +/-10%                                     |
| <b>FREQUENCY</b>                                                                  | 50Hz +/- 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60Hz +/- 10%                                                       |
| <b>NOMINAL CURRENT AT NOMINAL VOLTAGE LEVEL</b>                                   | 114A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 95A                                                                |
| <b>MAXIMUM CURRENT AT LOW LINE LEVEL (NOMINAL VOLTAGE - 10%) AND PF&gt;0.99</b>   | 114A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 105A                                                               |
| <b>OVER CURRENT PROTECTION DEVICE REQUIRED (OCPD) IN SITE DISTRIBUTION BOARD</b>  | 125A breaker recommended<br>(Required for supply cable protection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 125A breaker recommended<br>(Required for supply cable protection) |
| <b>UNDER-VOLTAGE RELAY/SHUNT TRIP RELAY IN SITE DISTRIBUTION BOARD (OPTIONAL)</b> | <p>The RTM75 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> |                                                                    |

\*Pending certification completion

|                                                                                                                                               |                                                                                                                                                                                                                                    |                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <p><b>MINIMUM BURIED CABLE SIZE FOR AC SUPPLY</b><br/>(LENGTH OF AC CABLES AND SYSTEM EFFICIENCY SHOULD BE CONSIDERED WHEN SIZING CABLES)</p> | <p>Single cores in buried duct:<br/>50mm<sup>2</sup> Cu for L1,2,3<br/>25mm<sup>2</sup> Cu for PE</p> <p>Multicore cable in buried duct:<br/>50mm<sup>2</sup> Cu</p> <p>Multicore cable direct buried:<br/>35mm<sup>2</sup> Cu</p> | <p>Single cores in buried duct:<br/>3AWG Cu for L1,2,3<br/>4AWG Cu for PE</p> <p>Multicore cable in buried duct:<br/>2AWG Cu</p> |
| <p><b>MAXIMUM LENGTH OF BURIED CABLES FOR MINIMUM AC LINK CABLE SIZE SPECIFIED</b></p>                                                        | <p>200m<br/>(To maintain feeder voltage drop below 3%)</p>                                                                                                                                                                         | <p>200m<br/>(To maintain feeder voltage drop below 3%)</p>                                                                       |

# DCFC 175kW Fast Charger

The **RT 175-S/175kW from Blink** is a reliable and robust electric fast charger with an attractive design that is easy to own and operate. It's patented liquid-cooling system ensures maximum product life with minimum maintenance.

## Benefits

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

With the flexibility of different colors and branding design, the DCFC 175kW is easily adapted to suit your corporate image.



\*The product image shown are for illustration purposes only and may not be an exact representation of the product.

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# DCFC 175kW Specifications

| USER UNIT                  |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONNECTORS                 | Single: CCS   Dual: CCS and CHAdeMO                                                                                                                                                                                                                                                                                                                                                                                          |
| CONNECTOR TYPE(S)          | Worldwide: CCS2 or CCS2 and CHAdeMO<br>US & Canada: CCS1 or CCS1 and CHAdeMO                                                                                                                                                                                                                                                                                                                                                 |
| OUTPUT VOLTAGE             | 200V - 920V DC                                                                                                                                                                                                                                                                                                                                                                                                               |
| OUTPUT CURRENT             | CCS: up to 350A<br>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 532mm (1'9") (D)<br>Note: Width excludes plugs                                                                                                                                                                                                                                                                                                                                       |
| WEIGHT                     | 260kg (573lb)                                                                                                                                                                                                                                                                                                                                                                                                                |
| SHIPPING WEIGHT            | 310kg (683lb) (estimate)                                                                                                                                                                                                                                                                                                                                                                                                     |
| AUTHENTICATION / PAYMENT   | RFID only OR Credit Card Reader with RFID                                                                                                                                                                                                                                                                                                                                                                                    |
| CABLE LENGTH               | 4.1m reach (13'5" reach)                                                                                                                                                                                                                                                                                                                                                                                                     |
| CABLE MANAGEMENT           | Fitted standard                                                                                                                                                                                                                                                                                                                                                                                                              |
| COMPLIANCE                 | UL NRTL certification<br>FCC Class A                                                                                                                                                                                                                                                                                                                                                                                         |
| 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)<br>US & Canada (480VAC): 480VAC 3ph ±10%   60Hz ±10%   Derate the power below -10% to -15%   225A nominal   250A maximum (at low line level)<br>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                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                            |                                                                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OUTPUT VOLTAGE   POWER</b>              | 950V DC   Up to 178kW                                                                                                                                                        |
| <b>ISOLATION BETWEEN AC MAINS &amp; EV</b> | Reinforced Isolating transformer with double/reinforced insulation                                                                                                           |
| <b>EFFICIENCY</b>                          | 96% at full load                                                                                                                                                             |
| <b>POWER FACTOR</b>                        | >0.99                                                                                                                                                                        |
| <b>TOTAL HARMONIC DISTORTION (THD)</b>     | <5%                                                                                                                                                                          |
| <b>OPERATING TEMPERATURE</b>               | -10°C to 50°C (14°F to 122°F) 5% to 95% RH Non Condensing (without optional cold kit)<br>-30°C to 50°C (-22°F to 122°F) 5% to 95% RH Non Condensing (with optional cold kit) |
| <b>STORAGE TEMPERATURE</b>                 | -55°C to 80°C (-67°F to 176°F) 5% to 95% RH Non Condensing                                                                                                                   |
| <b>NETWORK CONNECTION</b>                  | Ethernet to User Unit                                                                                                                                                        |
| <b>WEIGHT</b>                              | Without transformer: 500kg (1102lb)   With transformer: 988kg (2178lb)                                                                                                       |
| <b>SHIPPING WEIGHT</b>                     | Without transformer: 590kg (1301lb)   With transformer: 1078kg (2377lb)                                                                                                      |
| <b>DIMENSIONS</b>                          | 2,147mm (7'1") (H) x 650mm (2'2") (W) x 1,055mm (3'6") (D)                                                                                                                   |
| <b>IK RATING</b>                           | IK10                                                                                                                                                                         |
| <b>IP RATING</b>                           | IP55 (NEMA 3R)                                                                                                                                                               |
| <b>WIRELESS UPLINK</b>                     | 3G/4G cellular communications with failover redundancy                                                                                                                       |
| <b>WIRED UPLINK</b>                        | Ethernet                                                                                                                                                                     |
| <b>POWER SUPPLY</b>                        | Battery-backed UPS functionality for reliable telemetry at all times                                                                                                         |
| <b>SOFTWARE SUPPORT</b>                    | OCPP v1.6J support for management and billing                                                                                                                                |
| <b>SECURITY</b>                            | SSH with EC keys and unique password for manufacturer diagnostics                                                                                                            |
| <b>POWER CONTROL</b>                       | Supports OCPP charging profiles (OCPP v1.6J)                                                                                                                                 |
| <b>CONTROL PLATFORM</b>                    | Included in the Power Unit                                                                                                                                                   |
| <b>POWER SHARING (Optional)</b>            | Configurable site-level power demand management                                                                                                                              |
| <b>EMC</b>                                 |                                                                                                                                                                              |
| <b>EMC</b>                                 | Worldwide: EMC Directive Immunity: Class A Emissions: Class A<br>USA: FCC Immunity: Class A Emissions: Class A                                                               |
| <b>AC GRID INTERFACE</b>                   |                                                                                                                                                                              |
| <b>VOLTAGE</b>                             | Worldwide (400VAC): 400VAC 3ph ±10%<br>US & Canada (480VAC): 480VAC 3ph ±10%<br>Canada (600VAC): 600VAC 3ph ±10%                                                             |
| <b>FREQUENCY</b>                           | Worldwide: 50Hz ±10%<br>US & Canada: 60Hz ±10%                                                                                                                               |



|                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAXIMUM CURRENT AT LOW LINE LEVEL (Nominal voltage -10%) AND PF = 0.99</b>                                                         | Worldwide (400VAC): 300A<br><hr/> US & Canada (480VAC): 250A<br><hr/> Canada (600VAC): 200A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>OVER CURRENT PROTECTION DEVICE REQUIRED (OCPD) IN SITE DISTRIBUTION BOARD</b>                                                      | Worldwide (400VAC): 300A Circuit Breaker (recommended)<br>(The circuit breaker nominal rating <b>MUST</b> not exceed 300A in order to maintain primary protection for the LV transformer in the IPU)<br>(If a 350A circuit breaker is used the buried cable gauge <b>MUST</b> be increased)<br><hr/> US & Canada (480VAC): 320A UL Listed Circuit Breaker (recommended)<br>(The circuit breaker nominal rating <b>MUST</b> not exceed 320A in order to maintain primary protection for the LV transformer in the IPU)<br><hr/> Canada (600VAC): 250A UL Listed Circuit Breaker (recommended)<br>(The circuit breaker nominal rating <b>MUST</b> not exceed 250A in order to maintain primary protection for the LV transformer in the IPU) |
| <b>FAULT CURRENT LIMITING FUSES IN SITE DISTRIBUTION BOARD</b>                                                                        | Current limiting fuses or a UL recognised current limiting circuit breaker <b>MUST</b> be installed if available fault current exceeds 18kA<br>Note: The IPU has an option to upgrade the SCCR to 100kA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RESIDUAL CURRENT MONITORING IN SITE DISTRIBUTION BOARD (Optional)</b>                                                              | If a residual current monitoring device is required by local regulation it shall be of time delay type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UNDER-VOLTAGE RELAY IN SITE DISTRIBUTION BOARD (Optional)</b>                                                                      | The isolated power unit includes circuitry to locally isolate the charger’s power circuit if the safety loop monitoring the door switches and tilt sensors is triggered.<br>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.<br>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.                                     |
| <b>MINIMUM BURIED CABLE SIZE FOR AC LINK (Length of AC link cables and system efficiency should be considered when sizing cables)</b> | Worldwide (400VAC):<br>Twin 70mm <sup>2</sup> Cu for L1, L2, L3<br>Single 70mm <sup>2</sup> Cu for PE<br><hr/> US & Canada (480VAC):<br>Twin 3/0 Cu for L1, L2, L3<br>Single 3/0 Cu for PE<br><hr/> Canada (600VAC):<br>Twin 1/0 Cu for L1, L2, L3<br>Single 1/0 Cu for PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MAXIMUM LENGTH OF BURIED CABLES FOR MINIMUM AC LINK CABLE SIZE SPECIFIED</b>                                                       | 200m (656ft)<br>(To maintain feeder voltage drop below 3%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |