

WAEVCP DCFC Eligibility Resource Guide

Use this checklist to verify DCFC eligibility per WAEVCP guidelines. For more information, please see the [Implementation Manual](#). Below the checklist, you will find step-by-step instructions detailing how to find this information on a charger's specifications sheet.

DCFCs must comply with the following requirements to be eligible:

<input type="checkbox"/>	Use the CCS1 connector standard or the NACS connector specification. <i>CHAdeMO connectors are eligible costs but not eligible for rebate cap calculation.</i>
<input type="checkbox"/>	Be networked via Wi-Fi, Cellular (4G and above), and/or Ethernet.
<input type="checkbox"/>	Be capable of at least a 100-kW power output.
<input type="checkbox"/>	Support remote start capabilities for, at minimum, payment via a toll-free number.
<input type="checkbox"/>	Not require a membership for payment.
<input type="checkbox"/>	Have a mobile payment device physically located on each charger dispenser or on a kiosk serving the charger dispensers. <i>This requirement only applies to publicly available chargers, not residential or fleet/workplace, unless those projects will be publicly available in addition to their residential/work purpose.</i>
<input type="checkbox"/>	Be certified to OCPP 1.6 or 2.0.1. <i>Commerce will verify through attestation. However, project partners responsible for complying with WAC 16.662.220 should be aware that they must provide documentation of OCPP certification if requested and if such certification is available.</i>
<input type="checkbox"/>	Be certified by an NRTL to UL 2202 or UL 9741.

How to Self-Verify Equipment with a Specification Sheet

****DISCLAIMER** – Example specification sheets are used throughout this document from various chargers. This is simply to demonstrate how to find information on specification sheets and does not indicate that the chargers are verified nor endorsed by Commerce or the WAECP program**

Step 1: Acquire desired Charger Specification Sheet or technical details.

There are multiple ways to acquire a charger specification sheet, but most are through the manufacturer website. To start, we would recommend typing the manufacturer name + charger model + "spec sheet" into your preferred web browser.

For instance, if you were looking for the Autel MaxiCharger DC Fast or BTC Power HPCT, you would type search for "Autel MaxiCharger DC Fast spec sheet" or "BTC Power HPCT spec sheet". You will either find the specification sheet *OR* be directed to the product webpage where the technical specifications are either listed (see example A), or you can click on a link to open the technical specifications (see example B). In some cases you may also have to obtain a set of specification sheets for both the power cabinet component and the dispenser components (see example B).

Example A from Autel webpage (<https://www.chargepoint.com/businesses/ac-stations/ct4000/specs>) where specifications are listed on the product website.



Full Product Line Residential Commercial Shop Incentives Resources Company

Technical Specifications

Part Numbers

DCFC 60KW-120KW: 60kW: UF060xxxxx; 80kW: UF080xxxxx;
100kW: UF100xxxxx; 120kW: UF120xxxxx

DCFC 140KW-240KW: 140kW: UF140xxxxx; 160kW: UF160xxxxx;
180kW: UF180xxxxx; 200kW: UF200xxxxx;
220kW: UF220xxxxx; 240kW: UF240xxxxx

The "xxxxx" portion of the product part number represents the various product configurations.

Electrical

Connector Option*

DCFC 60KW-120KW: 60kW: UF060xxxxx; 80kW: UF080xxxxx;
DCFC 140KW-240KW: Dual CCS1/CCS1 Boost, or CCS1 + CHAdeMO

Max. Input AC Current

DCFC 60KW-120KW: 60kW: 91A; 80kW: 122A;
100kW: 152A; 120kW: 182A

DCFC 140KW-240KW: 140kW: 213A; 160kW: 245A; 180kW: 270A;
200kW: 305A; 220kW: 335A; 240kW: 365A

Nominal Input AC Current

DCFC 60KW-120KW: 60kW: 83A; 80kW: 110A;
100kW: 138A; 120kW: 165A

DCFC 140KW-240KW: 140kW: 181A; 160kW: 207A; 180kW: 230A;
200kW: 260A; 220kW: 285A; 240kW: 310A

Input Voltage Range

480 V AC - 15 % to +10 % @ 60 Hz

DC Output Voltage

CCS1: 150 to 950 V DC; CHAdeMO: 150 to 500 V DC

Network Type

TN-S, TN-C, TN-C-S, & TT (External RCD** Required)

AC Input Connection

3P + PE (No Neutral)

Protection

Over-Current, Over-Voltage, Under-Voltage, Ground-Fault, Over-Temperature, Short-Circuit, Insulation Monitor (IMD), & Surge Protection



Gen4 360 kW Power Cabinet

Introducing BTC POWER's Gen4 360kW Power Cabinet. This is part of the modular, flexible, efficient, and highly serviceable Gen 4 split system Product Line. Paired with a dispenser this power cabinet has the ability to output up to 360kW to a single vehicle. BTC POWER's was the industry first with Dynamic Power Allocation (ability to share power across multiple output simultaneously) and had improved this capability with the Gen 4 Power Cabinet. With Class leading size and power density our Gen4 Power Cabinet can turn any space into a High Power Charging Station.

Features

Simultaneous Charging Utilizing Dynamic Power - Allocation Technology
 Up to 360kW
 Up to 500A Max Current per Output (2x 500A simultaneously)
 Wide output Voltage Range 200-950VDC
 Pair(s) with Dispenser for multiple different flexible system configurations
 NEVI Compliant configurations available

Applications



Contact a Specialist

Download Datasheet

Example B from BTC Power webpage (<https://btcpower.com/products/dc-chargers-level-3-split-system/360-kw-power-cabinet/>) where specifications are linked and have different specification sheets for the power cabinets and the dispensers.



Gen4 200, 400, 500 Amp Dispenser

The Gen4 200 400 500 Amp Dispenser is designed with an adaptable configuration to reach power levels of up to 360 kW. Future-proofed with dynamic power sharing and max 1,000 VDC to provide fast charging in less time.

Features

500 to 950 Max DC Voltage
 Simultaneous charging for a smaller footprint
 Modular design for future upgrading
 Credit Card, RFID, Apple & Android Payment Options
 SAE Combo CCS1 and CHAdeMO
 NEVI Compliant configurations available

Applications



Contact a Specialist

Download Datasheet

If you cannot find the specification sheets on the website, contact the manufacturer directly through their provided contact information on the bottom or top of their webpage.

Step 2: Check CCS1 or NACS connector standard

On the specification sheet, the manufacturer will call out which connector standard the charger supports as depicted below.

Electrical

Connector Option*	DCFC 60KW-120KW: 60kW: UF060xxxxx; 80kW: UF080xxxxx; DCFC 140KW-240KW: Dual CCS1/CCS1 Boost, or CCS1 + CHAdeMO
Max. Input AC Current	DCFC 60KW-120KW: 60kW: 91A; 80kW: 122A; 100kW: 152A; 120kW: 182A DCFC 140KW-240KW: 140kW: 213A; 160kW: 245A; 180kW: 270A; 200kW: 305A; 220kW: 335A; 240kW: 365A
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(<https://autelenergy.us/pages/maxicharger-dc-fast-60kw-240kw>)

Gen4 Public Dispenser

SKU	HPCD7-500-01-016		HPCD7-500-05-016		HPCD7-500-02-016	
Connectors	CHAdeMO	SAE CCS1 (Liquid Cooled)				
Rated Output Current	200 A	500 A	500 A	400 A* (500 A Boost)	400 A* (500 A Boost)	400 A* (500 A Boost)
Max DC Voltage (VDC)	500 V	950 V	950 V	950 V	950 V	950 V
Output Power	350 kW Max					
Input Power (Auxiliary)	480 VAC Split Phase					
Input Current (Auxiliary)	7 A					
Network	OCPP 1.6 BTCP (OCPP 2.0.1 available in future)					
Dimension & Weight	23" W x 18.5" D x 92.4"H, 1,100 lbs					

(https://btcpower.com/wp-content/uploads/2023/09/Gen4PublicDispenser_SpecBooklette_Final.pdf)

Tip: To quickly check if the charger supports the required CCS1 or NACS connector, press CTRL + F on your keyboard and search "CCS1" or "NACS".

Step 3: Check network connectivity via Wi-Fi, Cellular (4G and above), and/or Ethernet

Ensure that the specification sheets mention connection via ethernet, Wi-Fi, and/or Cellular. If cellular is mentioned, it must be 4G (sometimes abbreviated as "LTE") and above. Anything lower, such as 3G, will not be eligible.

User Interface & Communication

Connectivity	Internet Access Via 4G / Wi-Fi / Ethernet (RJ 45)
User Authentication	QR Code, RFID, Credit Card (Optional)
ISO 15118 Plug & Charge	Yes
DIN 70121	Yes
Interface	27" LCD High-Contrast Touchscreen (15.6" Optional)
Accessible For Wheel Chair Users	Yes
Communications Protocols	OCPP 1.6 JSON, OCPP 2.0.1 (Can Be Upgraded Later)
RFID Reader	ISO 14443 A+B to Part 4 & ISO/IEC 15693, Mifare, NFC, Calypso, Ultralight, PayPass, HID & More
Emergency Button	Yes
Software Update	OTA Update Via Web Portal
Control And Configuration	Web Portal, On-Board Service Portal

(<https://autelenergy.us/pages/maxicharger-dc-fast-60kw-240kw>)

ACCESS CONTROL	RFID: ISO/IEC 14443A/B Credit Card Optional
POWER ELECTRONICS COOLING	Air Cooled
REGULATORY COMPLIANCE	UL-2202 EMC: EN 61000-6-1:2007, EN 61000-6-3:2007/A1:2011/AC:2012
COMMUNICATION	Ethernet, 4G/Wi-Fi
ELECTRICAL SAFETY: GFCI	RCD 20 mA Type A

(https://blinkcharging.com/wp-content/uploads/2022/07/UL_DCFEAST_180kW_SpecSheet_March_2022.pdf)

Step 4: Have a mobile payment device physically located on each charger dispenser or on a kiosk serving the charger dispensers.

Look for RFID, NFC, QR code, or phone app payment options.

User Interface & Communication

Connectivity	Internet Access Via 4G / Wi-Fi / Ethernet (RJ 45)
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(<https://autelenergy.us/pages/maxicharger-dc-fast-60kw-240kw>)

Features

Standard	Optional
Dynamic Power Allocation in 90 kW increments	ISO 15118:2014
System available in 1 or 2-dispenser configuration	Customizable branding
Payment types: RFID	Apple & Android Pay (based on network provider)
15" Outdoor color touch display	Payter CC Reader
Connector configurations:	
Single or Dual CCS1	
CHAdeMO and CCS1 (NACS Coming Soon)	
CTEP & EnergyStar™ Certified	

*Subject to Ambient Conditions



2 | BTC POWER 360 kW Split System

(https://btcpower.com/wp-content/uploads/2023/09/Gen4PublicDispenser_SpecBooklette_Final.pdf)

Step 4: Be certified to OCPP 1.6 or 2.0.1.

While Commerce will be verifying this requirement via self-attestation on the charger's specification sheet, OCPP certification through OCA is required for public chargers (excluding those set to free-vend) and documentation of OCPP 1.6 certification or later must be provided if requested. You can use the following database to verify your charger's compliance with this requirement: <https://www.openchargealliance.org/certification/certifiedcompanies/>.

Step 5: Be certified by an NRTL to UL 2202 or 9741

Search the product specification sheet for UL 2202 or 9741. This is often listed under safety and compliance or certifications.

Certification and Standards

Safety and Compliance	UL 2202, UL 2231-1, UL 2231-2, NEC Article 625, CSA C22.2 No. 107.1-16
EMC compliance	FCC Part 15 Class A, Class B (Optional)
Warranty	24 months, warranty extension possible

* CCS1 Max 200A, CCS1 Boost 300A (Max 400A) ** RCD: Residual Current Detector For Ground Fault Protection

(<https://autelenergy.us/pages/maxicharger-dc-fast-60kw-240kw>)

Environmental and Compliance (System)

Ambient Condition	-30 °C to +50 °C, 95% Humidity, 2000m Altitude. NEMA 3R*
Safety Compliance	ETL Listed for USA and Canada: Complies with UL 2202, UL 2231, UL50E, NEC Article 625, CSA STD C22.2 No. 107.1 FCC Part 15 Class A

(https://btcpower.com/wp-content/uploads/2023/09/Gen4PublicDispenser_SpecBooklette_Final.pdf)

Step 6: Contact manufacturer for quote and remaining questions

If your charger meets all the above requirements, it is most likely eligible. When you reach out to the manufacturer, make sure to confirm that they fulfill the two following requirements:

1. *Support remote start capabilities for, at minimum, payment via a toll-free number.*
2. *Not require a membership for payment*

Step 7: Success! You've reviewed your charger's compliance with WAEVCP requirements.