

VERSICHARGE

VersiCharge Ultra 175™

175 kW DC fast charger

siemens.ca/vcultra



The ultra powerful charger engineered for reliability across a wide range of grid voltages. Charging your car with the VersiCharge Ultra 175 kW DC charger is safe, secure, and simple, with industry standard plugs and a simple interface. Designed for multiple applications, the VersiCharge Ultra 175 is easy to install, operate, and maintain, making it a cost-effective solution for DC fast charging. Its patented liquid cooling technology provides durability in various environmental conditions.

Features:

- Slim, compact, and stylish design
- Reduced installation cost
- Durable UV resistant exterior
- Low maintenance
- Open Charge Point Protocol (OCPP) integration
- Can be custom wrapped to reflect customer branding
- Options include a built-in credit card reader, RFID, large display, and more

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VersiCharge Ultra 175™

Technical Data



User Unit

Connectors	Single: CCS Dual: CCS and CHAdeMO
Connector Type(S)	US & Canada: CCS1 or CCS1 and CHAdeMO
Output Voltage	200V - 920V DC
Output Current	CCS: up to 350A 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) Note: Width excludes plugs
Weight	277kg / 611lb
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	cUL certification FCC Class A

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Isolated Power Unit	
Input Voltage	US: (480VAC): 480VAC 3ph ±10% 60Hz ±10% 225A nominal 250A maximum (at low line level) Canada: (600VAC): 600VAC 3ph ±10% 60Hz ±10% 180A nominal 200A maximum (at low line level)
Input Overvoltage Category	Category III
Output Voltage Power	950V DC Up to 178kW
Isolation Between AC Mains & EV	Reinforced Isolating transformer with double/reinforced insulation
Efficiency	96% at full load
Power Factor	>0.99
Total Harmonic Distortion (THD)	<5%
Operating Temperature	-10°C to 50°C (14°F to 122°F) 5% to 95% RH Non Condensing (without optional cold kit) -30°C to 50°C (-22°F to 122°F) 5% to 95% RH Non Condensing (with optional cold kit)
Storage Temperature	-55°C to 80°C (-67°F to 176°F) 5% to 95% RH Non Condensing
Network Connection	Ethernet to dispenser unit
Weight	With transformer: 988kg (2178lb)
Shipping Weight	With transformer: 1078kg (2377lb)
Dimensions	2,110mm (6'11") (H) x 650mm (2'2") (W) x 1,055mm (3'6") (D)
IK Rating	IK10
IP Rating	IP55 (NEMA 3R)
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
Power Sharing (Optional)	Configurable site-level power demand management
EMC	
EMC	USA: FCC Immunity: Class A Emissions: Class A

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AC Grid Interface	
Voltage	US: (480VAC): 480VAC 3ph ±10% Canada: (600VAC): 600VAC 3ph ±10%
Frequency	US & Canada: 60Hz ±10%
Maximum Current At Low Line Level (Nominal Voltage -10%) And Pf = 0.99	US: (480VAC): 250A Canada: (600VAC): 200A
Over Current Protection Device Required (Ocpd) In Site Distribution Board	US: (480VAC): 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) Canada: (600VAC): 250A UL Listed Circuit Breaker (recommended) (The circuit breaker nominal rating MUST not exceed 250A in order to maintain primary protection for the LV transformer in the IPU)
Fault Current Limiting Fuses In Site Distribution Board	Current limiting fuses or a UL recognised current limiting circuit breaker MUST be installed if available fault current exceeds 18kA Note: The IPU has an option to upgrade the SCCR to 100kA
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 charger's 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)	US: (480VAC): Twin 3/0 Cu for L1, L2, L3 Single 3/0 Cu for PE Canada: (600VAC): Twin 1/0 Cu for L1, L2, L3 Single 1/0 Cu for PE
Maximum Length Of Buried Cables For Minimum Ac Link Cable Size Specified	200m (656ft) (To maintain feeder voltage drop below 3%)

Catalog Number	Description
US2:VSCULT175DUSAG	Dispenser Unit
US2:VSCULTBOTF	Onetime setup for custom wrap and one wrap.
US2:VSCULT175CC	Optional credit card reader
US2:VSCULT175CB	Additional custom wraps

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