

# CCS-1 DC Fast Charge Electric Vehicle Connector



SAE J1772™ Plug and Inlet

Designed and developed in accordance with SAE J1772™, UL 2251: 2013, and IEC 62196-3: 2014 standards.

## Plug Technical Characteristics

Type	Combined Charging Standard Type 1, IEC 62196-3, 2014 Conf EE; SAE J1772 DC Level 2
Name	REV-1C-150c
Product Number	Configurable
Conductor & Wire Gauge	DC 2X 2AWG; PE 1X 6AWG; CP & CS 2 X 16AWG; Temperature Sensor 2X 16AWG
Rated Voltage & Current	600V, 150A DC
Temperature Sensor	PT1000
Connection	Crimped
Max Cable Length	7.5m; 25 Feet
Cable Jacket Color	Black

# Specifications

## Features & Benefits

### Electrical Features:

- 150A 600V DC
- Maximum charge performance: 90 kW
- Temperature Sensor: PT1000
- Design according to IEC 62196-3 Conf EE; SAE J1772™ DC Level 2
- RoHS Compliant
- UL 2251 Recognized —USA & Canada

### Environmental Features:

- Temperature Range: -30°C to +50°C
- UL Type 3R Construction
- Efficient fluids and dust draining feature

### REMA Exclusive Terminal System:

- Female terminals on charge connector
- Power terminal: 8.0mm
- Ground terminal: 2.8mm
- Signal terminals: 1.5mm
- Material: Copper DIN EN13601
- Terminals optimized for high mating cycle performance

### Physical Characteristics

- Housing Material: PA66, GF30
- Flammability Rating: UL 94 V-0



DC Charging

SAE J1772™ Plug

### Plug Cable:

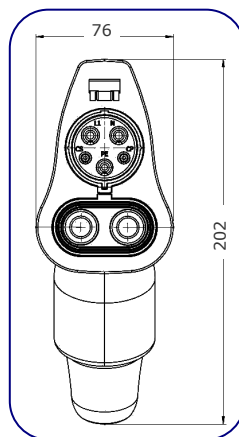
- Type EV; 600V
- 3 Power Conductors plus 4 Control Conductors
- Conductor Cross Section: DC 2X 2AWG/ PE X 6AWG/ CS & CP 16AWG/ Temperature Sensor 2X 16AWG
- Conductors: ASTM B 33, ASTM B 172, ASTM B 174 Insulation & Jacket—UL62
- Temperature Range: -40°C to +90°C
- Cable Length (up to): 7.5M; 25Feet
- Cable Jacket Color: Black



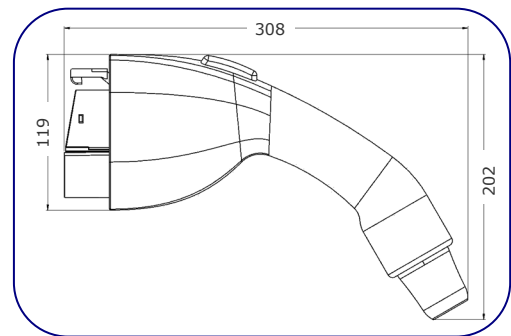
## Test Results

STANDARD	DESCRIPTION	RESULT
UL 2251 Section 29	Mold Stress Relief Test	PASS
UL 2251 Section 30	Moisture Absorption Resistance	PASS
UL 2251 Section 33	Dielectric Withstand Test	PASS
UL 2251 Section 34	Dew Point Test	PASS
UL 2251 Section 35	Conductor Secureness And Pullout Test	PASS
UL 2251 Section 36	Cable Secureness Test	PASS
UL 2251 Section 37	Impact Test (Plugs, Vehicle Connectors And Breakaway Couplings)	PASS
UL 2251 Section 38	Crush Test	PASS
UL 2251 Section 39	Vehicle Drive over Test	PASS
UL 2251 Section 40	Withdrawal Force Test	PASS
UL 2251 Section 41	Grounding Path Current Test	PASS
UL 2251 Section 44	No Load Endurance Test	PASS
UL 2251 Sections 49 And 51	Temperature Rise And Surface Temperature Test	PASS
UL 50E Sec. 8.5	External Icing Test	PASS
UL 50E Sec. 8.4.1.2	Dust Test - Outdoor Method (Hose Method)	PASS
CSA C22.2 No. 182.2 Section 7.3	Strain Relief Test	PASS
CSA C22.2 No. 182.2 Section 7.8	Temperature Test	PASS
CSA C22.2 No. 182.2 Section 7.4	Crushing Test	PASS
CSA C22.2 No. 182.2 Section 7.10	Impact Test	PASS
CSA C22.2 No. 182.2 Section 7.11	Dielectric Strength Test	PASS

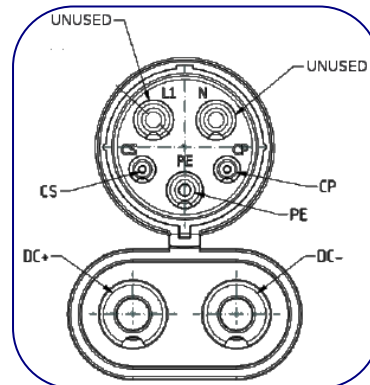
## Dimensional Data



Connector Front View



Connector Side View



Connector Front View

### Serving a Global Market:

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