Obara Energy Components

Connector with Cable for Electric Vehicle Fast Charger

General Catalogue

Connect the world to the future

Obara Energy Components Ltd.
Web site: https://obaraec.com/en/contact

JE-CAT-0053G_20260602

Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
TÜVRheinland
CERTIFIED

Fast Charging Connector

Obara Energy Components has contributed to the utility industries for over 70 years. Leveraging those technologies, we started developing and supplying EV connectors in 2010 and are proud to be a pioneer of the longest-operating CHAdeMO connector on the market.

Our products have been used internationally, primarily in Asian and European regions for several decades. In particular, our CHAdeMO connectors have long been recognized worldwide as the 'standard CHAdeMO design.

Not only relying on our legacy and achievements, but we have also been continuously striving to contribute to EV industry and meet customer demands.

Fast Charging Connector

- DC fast charging connector
- CHAdeMO and CCS2 matings
- Compliant to IEC 62196-3
- Certified with CE and UKCA
- Tailor made upon request

CHAdeMO

60A
125A
200A

CCS2

60A
135A
(MAX 200A)

CCS2

*1300A
(MAX 400A)

*1 If 250A versions is requested, please contact us for further consultation.

CHAdeMO Connector

Small, Durable, LED Illumination

Advantage

- Compliant to IEC 62196-3 and CHAdeMO 2.0*1
- Elastic material for durability and tough usage
- Vivid LED Illuminating while charging
- Small and flexible cable for easy handling
- Certified with CE and UKCA

Specifications

*1. CHAdeMO 2.0 is adapted to E55341-35-1K and E55341-50-1K.

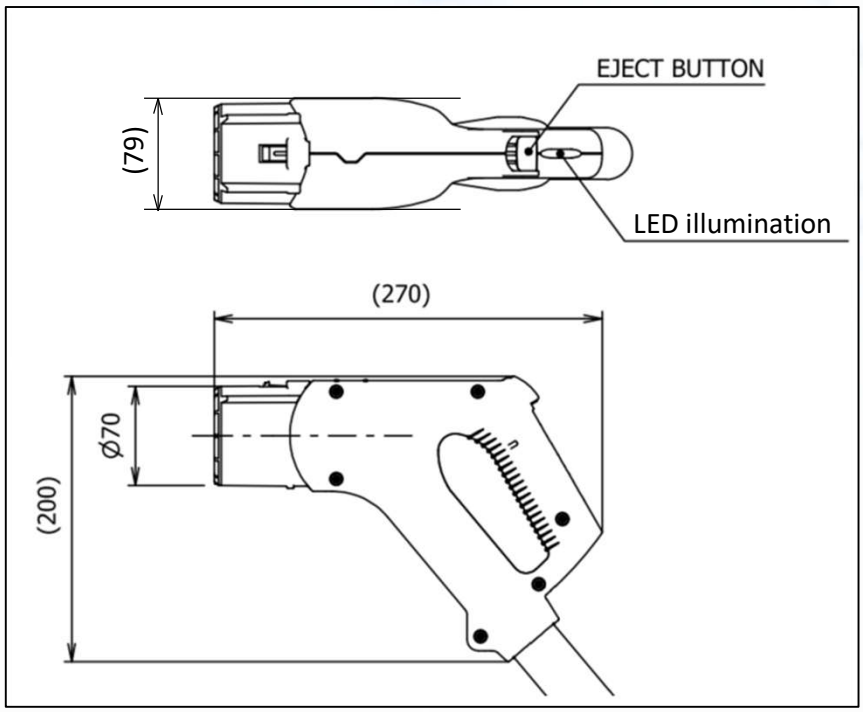
Model number	E55341-10-1K	E55341-35-1K	E55341-50-1K
Rated current	60A	125A	200A
Rated voltage	DC1kV		
Insulation resistance	100MΩ or more		
Withstand voltage	AC3kV/1min		
Inserting force	Less than 100N		
Ambient temperature	-35～+50℃		
Drop impact	No abnormality after free falling from 1m to concrete		
Protection degree	Unmated: IP44 / Mated: IP56		
Endurance	Terminal temperature rise is 90℃ or less, after 10000 mating and unmating cycles		

Construction

*2. In 3 pairs, 2 of them are connected to temperature sensors.
*3. JCS 4522 is adapted to 35mm^2 and 50mm^2 cables.

Cable	Standard	*3JCS 4522 / IEC 62893-4-1		
	Cable structure	Power	Control	Control
	Cross section	60A: 10mm^2 125A: 35mm^2 200A: 50mm^2	0.75mm^2	0.75mm^2
	Number of cores	2	7	*23 pairs
	Outer Diameter	60A: Ø22mm 125A: Ø30mm 200A: Ø35mm		
	Cable Weight	60A: 0.6kg/m 125A: 1.3kg/m 200A: 1.8kg/m		
Connector with cable	Standard	CHAdeMO 2.0 / IEC 62196-3		
	Dimension	L (270)mm x H (200)mm x W (79)mm		
	Weight	Approx. 0.9kg(without cable)		
	Housing	Plastic		

Dimension



CCS2 Connector

Fast Charging Connector

MAX 200A

Features

- Small diameter and light weight cable
- Robust and elastic housing against load
- By boost mode, max current up to 200A
- Compliant to IEC 62196-3:2022
- Certified with CE and UKCA

Specifications

*1. The test had been experienced for over 50,000 matings and unmating cycles. The condition of connector remains same to that of 10,000 cycles.

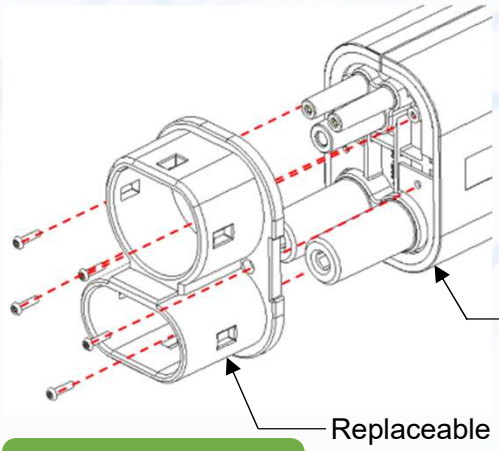
Model number	E55169-10-1K	E55169-35-1K
Rated current	60A	135A
Max current	60A	200A
Rated voltage	DC1kV	
Insulation resistance	100MΩ or more	
Withstand voltage	AC3kV/1min	
Inserting force	Less than 100N	
Ambient temperature	-30～+40℃	
Drop impact	No abnormality after free falling from 1m to concrete	
Protection degree	Unmated: IP24 / Mated: IP55	
Endurance	Terminal temperature rise is 90℃ or less, after 10,000 mating and unmating cycles	

CCS2 Connector

Construction

Cable	Standard	IEC 62893-4-1	
	Max current	60A	200A
	Outer diameter	Ø21.6mm	Ø28.5mm
	Minimum bending radius	130mm	171mm
	Approx. weight	0.7kg/m	1.4kg/m
Connector with cable	Model number	E55169-10-1K	E55169-35-1K
	Standard	IEC 62196-3	
	Dimension	L 260mm × H 154mm × W 75mm	
	Weight	Approx. 1.1kg (without cable)	
	Housing	Plastic	

Replaceable Mating Housing Kit

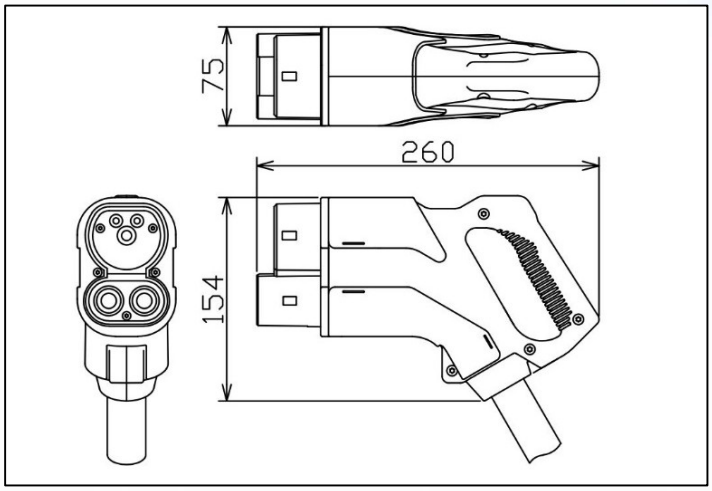


The replaceable mating housing with rounded head Torx screw M3-12 x 5pcs is available as a replacement part. If necessary, please order model number CCS2-RMH-M3X12. It is not needed to open main housing.

Model number: CCS2-RMH-M3X12

This kit includes as follows,
- Replaceable Mating Housing x 1pcs
- Torx screw M3-12 x 5pcs

Dimension



CCS2 Connector

Ultra-Fast-Charging

MAX 400A

Features

- Compliant to IEC 62196-3:2022
- Certified with CE and UKCA
- Robust and elastic housing against load
- By boost mode, up to 400A
- Tailor made upon requests (e.g., cable length)

Specifications

*1. The model shown is for reference purposes only. Actual models may differ.
*2. Depending on request, rated current 200A and 250A models are available.

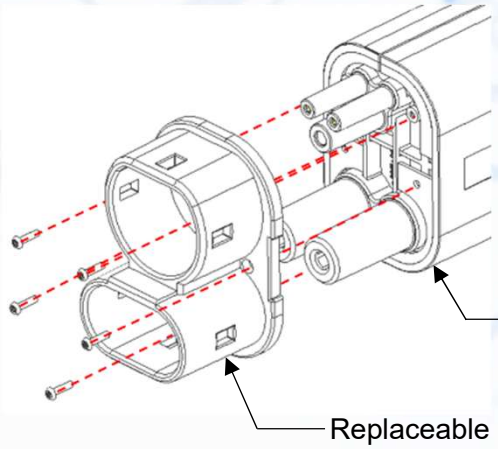
Model number	E55345-100-1K
Rated current	300A
Max current	400A
Rated voltage	DC1kV
Insulation resistance	100MΩ or more
Withstand voltage	AC3000V/1min
Inserting force	Less than 100N
Ambient temperature	-35～+40℃
Drop impact	No abnormality after free falling from 1m to concrete
Protection degree	Unmated: IP44 / Mated: IP54
Endurance	Terminal temperature rise is 90℃ or less, after 10,000 mating and unmating cycles

Construction

Cable	Standard	IEC 62893-4-1
	Max current	400A
	Outer diameter	Approx. Ø37mm
Connector with cable	Standard	IEC 62196-3
	Dimension	L (288)mm x H (168)mm x W (75)mm
	Housing	Plastic

*3. Specifications are subject to change without notice.

Replaceable Mating Housing Kit



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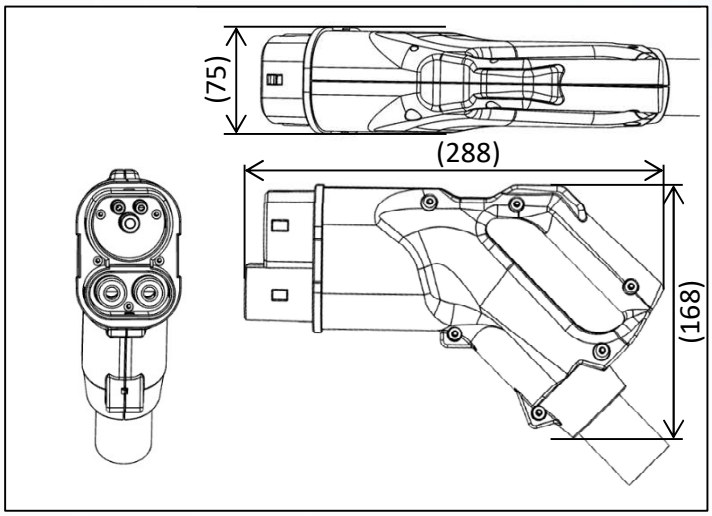
Dimension



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