



# ELECTRIC VEHICLE CHARGING DEVICES



Bemis Teknik Elektrik was established in 1994 in Bursa, one of Turkey's leading industrial cities, to produce industrial electrical materials. Currently, it produces 7 thousand kinds of industrial electrical materials with 100% domestic production in its 16 thousand square meters modern production facility in Bursa Organized Industrial Zone.

Bemis, which has ISO 9001-2015 QUALITY MANAGEMENT SYSTEM, ISO 14001:2015 ENVIRONMENTAL MANAGEMENT CERTIFICATE, CE, TSE, GOST-R, UKRSEPRO, ATEX and TÜV Quality Certificates; continues its sector leadership with its trained and experienced team. Bemis, which makes planned studies to become a world brand; is taking firm steps towards its goal. Bemis continues to produce its products and after-sales service with the understanding of its registered slogan "Quality is the expression of respect!...".

Our company, which produces all processes from the design stage of its products to after-sales service in its integrated facility with its expert R&D staff; It also provides direct and indirect technical support to its project, contracting and dealer customer profile. Bemis Teknik Elektrik, which exists in all fields of industry with its products, stands out in its sector with its products specially produced for automation, automotive, machinery, mining, food, hospital, port and ship industry.

Bemis continuously improves its products by utilizing end-user feedback through its exclusive dealers in 81 provinces. Based on consumer satisfaction in its products, Bemis attaches great importance to R&D activities in this direction and designs products suitable for easy and functional use.

Bemis, which can test and certify almost all of the materials it produces in its in-house laboratory; manages to keep its quality under control and improve it by monitoring deviations in tolerances.

Bemis draws its greatest strength from its employees and customers and thanks to the loyalty, diligence, attention and efficient work of its employees, it enables it to produce quality cheaply. The preference of its customers is one of its biggest indisputable advantages.

Turkey's technical team is a sensitive mass that thinks that quality products, quality service and domestic products should be preferred. The vast majority of this customer base prefers the Bemis brand.



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# ELECTRIC VEHICLE CHARGING STANDARDS

There are four basic standards for electric vehicle charging systems that are globally accepted. These standards ensure that charging infrastructure is widespread and that vehicles from different manufacturers are compatible

## AC ON - BOARD

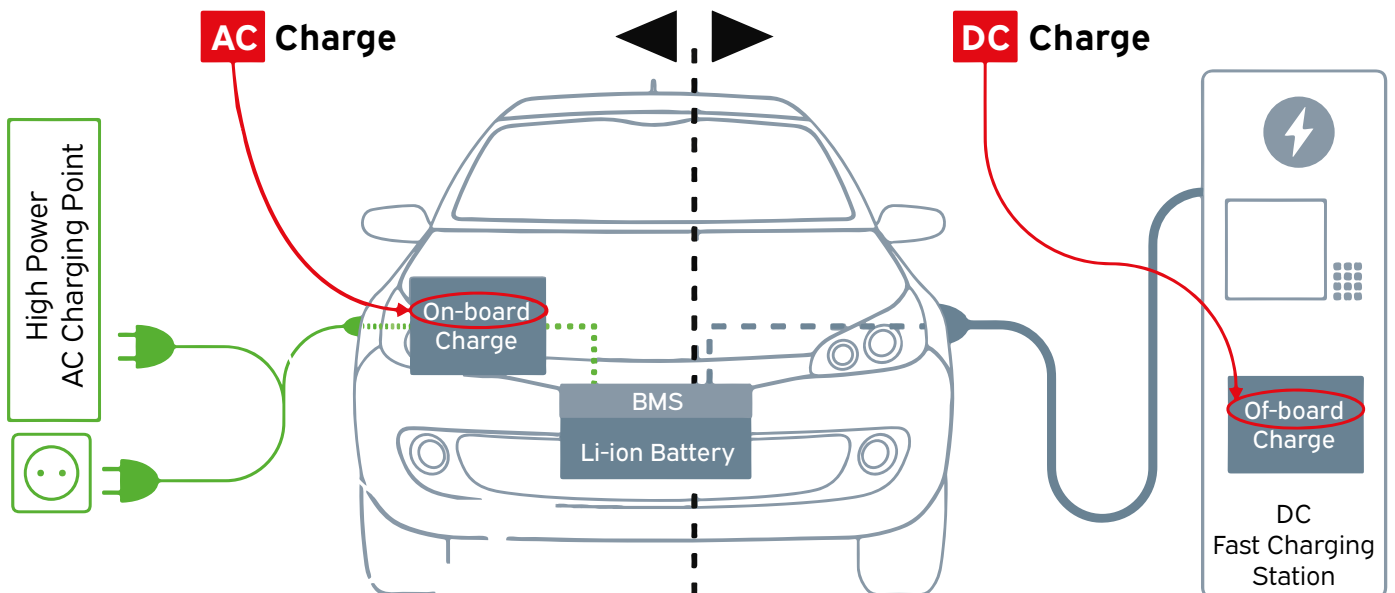
BMS (Battery Management System), which controls the system;

**IEC 62196-2 in Europe** standards are applied accordingly.

## DC OFF - BOARD

On-vehicle current control system electricity directly without this system is transferred to the battery;

**CSS Combo and IEC 62196-2 in Europe** applied according to the standards

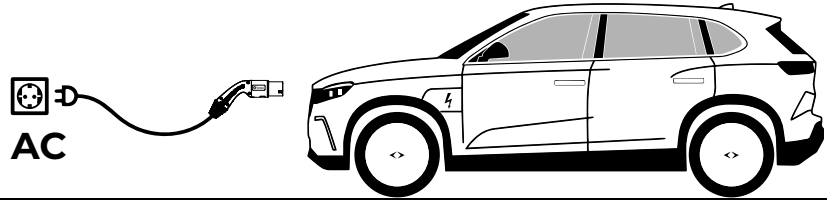




# ELECTRIC VEHICLE CHARGING MODES

## CHARGE MODE-1

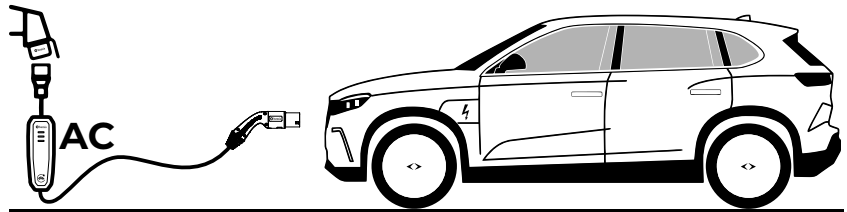
Standard electric vehicles charging using sockets and connecting directly to the mains the process is called MOD-1 given



*Charging with charging mode 1 is prohibited in many countries for safety reasons*

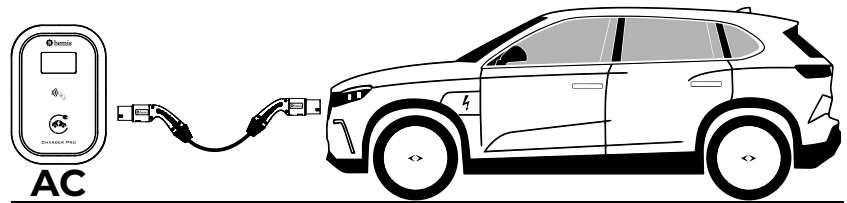
## CHARGE MODE-2

AC mobile devices in vehicles  
The process of recharging using the MOD-2 is called MOD-2



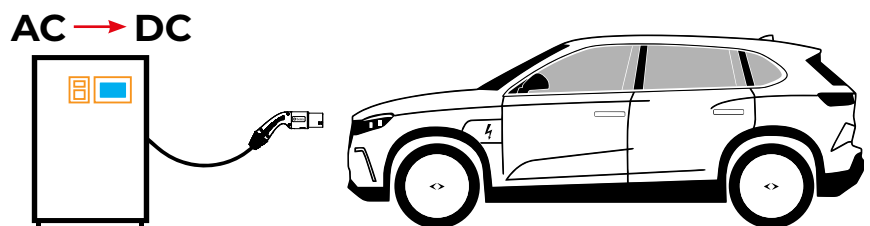
## CHARGE MODE-3

The process of charging vehicles using AC stations is called MOD-3



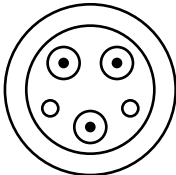
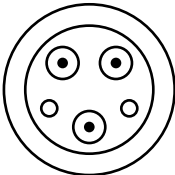
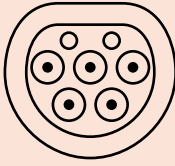
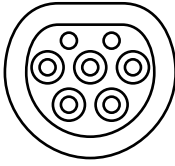
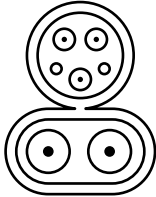
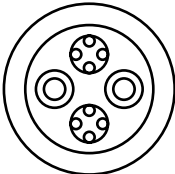
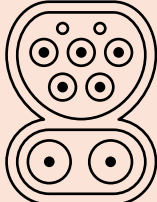
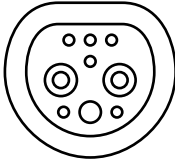
## CHARGE MODE-4

The process of charging vehicles using DC stations is called MOD-4.



# ELECTRIC VEHICLE SOCKET STANDARDS

Electric vehicle charging socket standards are set differently in different parts of the world. You can see the electric vehicle socket standards in the table below.

	America	Japan	Europe and Turkiye	China
AC	 <p>J1772 TYPE 1</p>	 <p>J1772 TYPE 1</p>	 <p>IEC 62196-2 TYPE 2</p>	 <p>GB/T</p>
DC	 <p>CCS1</p>	 <p>CHAdeMO</p>	 <p>CCS 2</p>	 <p>GB/T</p>

## TYPE 2 (IEC 62196-2)

It is used in AC chargers. This type of connector is approved as a European standard. This connector is characterized by its unique design. It is round, but with a flat edge on the top is available.

However, it includes two more pins corresponding to the two extra phases required for three-phase charging.

This system provides charging from 3 to 43 kW and supports single-phase up to 16A. and three-phase up to 63A.

## COMBINED CHARGING SYSTEM (CCS) COMBO 2 (IEC 62196-3)

The CCS Combo 2 is based on the Type 2 connector by adding two additional pins. Combined charging System DC fast charging is built for The connector can handle AC and DC charging up to 350 kW

## WHAT IS OCPP?

OCPP (Open Charge Point Protocol) is a communication protocol for the management and control of electric vehicle charging stations. OCPP enables two-way communication between charging stations and a centralized management system (back-end). First introduced in 2009 in the Netherlands based EaadNL and other partners, and over time has become an industry standard.

### ADVANTAGES of OCPP

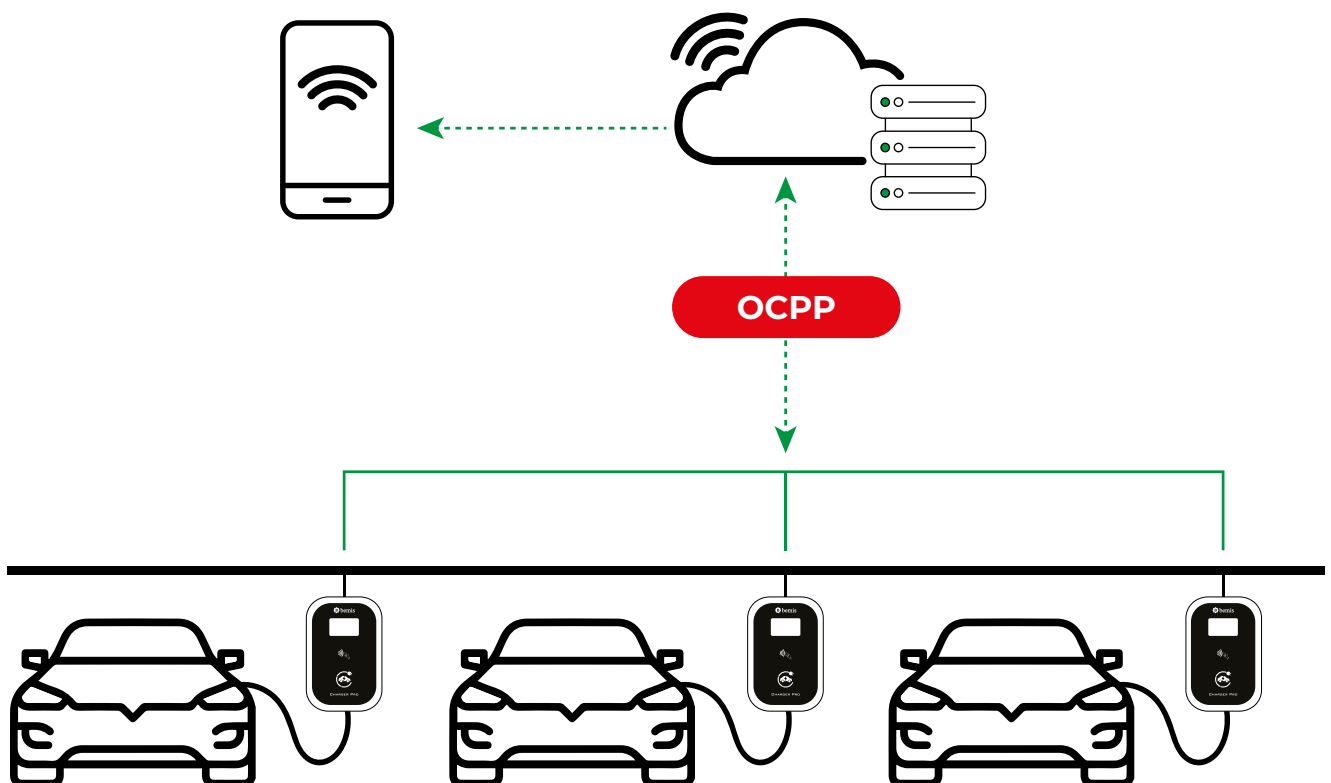
**Compatibility:** Allows charging stations of different brands to work on the same system.

**Flexibility and Scalability:** Adaptable to all types of charging networks, from small to large.

**Security:** Ensures security in data transmission.

**Cost Savings:** Reduces operating costs as it is an open standard.

**Developability:** Easily adapts to new technologies and features.



The OCPP is a new technology that enables efficient and flexible management of electric vehicle charging infrastructure. Is a critical protocol. By providing a standardized and open system, it offers many advantages such as compatibility, scalability, security and cost savings. This means that electric vehicles contributes to the efficient growth of charging infrastructure as it becomes more widespread.

## **% 100** **CONTROL**

- ▶ Pcb board design,
- ▶ Bemis local software,
- ▶ Integrated plant production

Our products leave the production line after passing durability and safety tests. Every single part is meticulously checked. Our extension cables are 100% checked in our test device and evaluated for reliability and performance.









# ELECTRIC VEHICLE CHARGING DEVICES

Designed for use at home, at work or for personal use, chargers allow you to charge your car anywhere with easy installation features.



**MODEL-1  
CHARGER**



**MODEL-2  
CHARGER +**



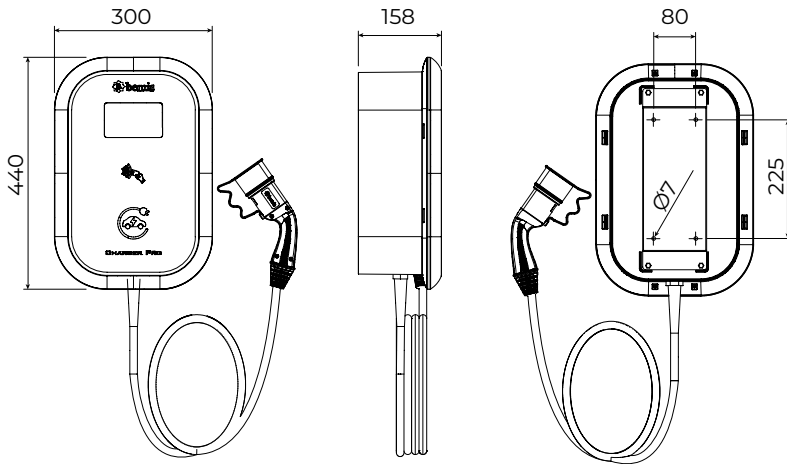
**MODEL-3  
CHARGER PRO**

## AREAS OF USE

- ▶ Home
- ▶ Apartment buildings
- ▶ Villas
- ▶ Housing
- ▶ Workplace
- ▶ Sites
- ▶ University Campuses
- ▶ Hotels
- ▶ Hospitals
- ▶ Shopping Malls
- ▶ Parking lots
- ▶ Entertainment centers
- ▶ Business centers
- ▶ Vehicle fleets

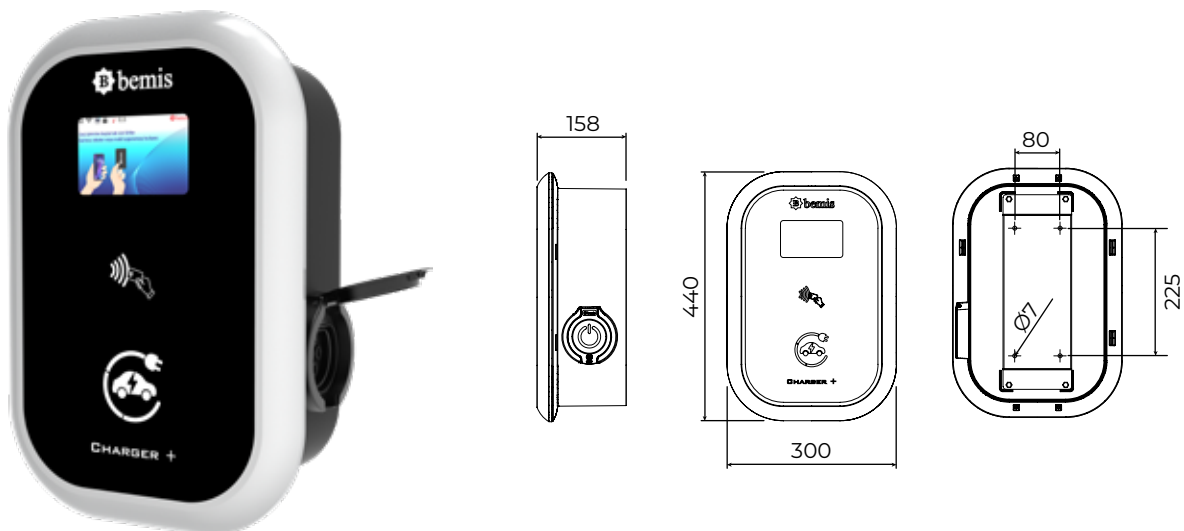


## WIRED MODEL CHARGING DEVICES



**\*Wired Models IP66**

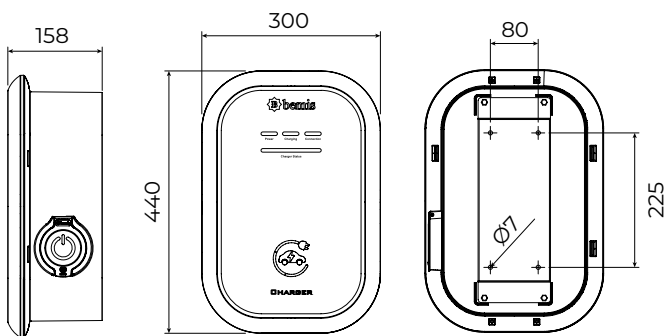
## MODEL WITH SOCKET CHARGING DEVICES



**\*Models with socket IP65**

# CHARGER MODEL-1 CHARGING DEVICE

<b>AC Output Power</b>	7,4 kW	11 kW	22 kW
<b>Phase</b>	Monophase	Threephase	
<b>Installation</b>	Wall or standing totem		
<b>Protection Class</b>	IP54 / IP65 - IK10		
<b>Voltage Range</b>	380/415 V AC 50-60 Hz		
<b>Maximum Current</b>	16A / 32A		
<b>Operating Temp.</b>	-25°C / +55°C		
<b>Body Material</b>	ABS		
<b>Screen</b>	⊗	None	
<b>RFID Reader</b>	⊗	None	
<b>OCPP</b>	⊗	None	
<b>Standard</b>	EN 61851 - 1 : 2019		
<b>Warranty</b>	2 Years		
<b>Weight</b>	2,5 Kg.		
<b>Certification</b>	CE		
<b>Packaging</b>	Box		



## PROTECTION FEATURES

RCD, MID, Over Current, Over Voltage, Under Voltage, Over Temperature Protection, Earth Fault, Fault Warning

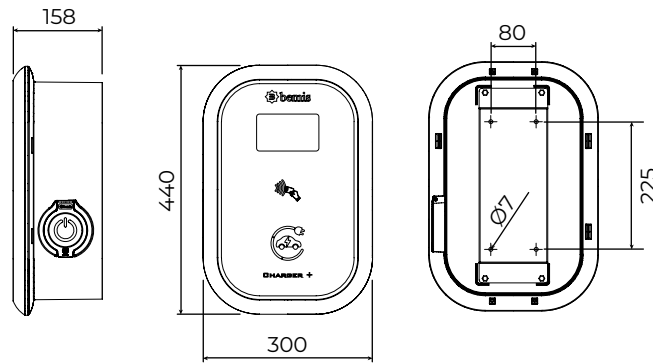
## PRODUCT CODE

<b>BEV-2316-4302</b>	7,4 kW Monophase Charger with socket	<b>BEV-2332-2352</b>	7,4 kW Monophase Charger (Wired)
<b>BEV-2516-4303</b>	11 kW Threephase Charger with socket	<b>BEV-2532-2353</b>	11 kW Threephase Charger (Wired)
<b>BEV-2516-4304</b>	22 kW Threephase Charger with socket	<b>BEV-2532-2354</b>	22 kW Threephase Charger (Wired)



# CHARGER PLUS MODEL-2 CHARGING DEVICE

<b>AC Output Power</b>	7,4 kW	11 kW	22 kW
<b>Phase</b>	Monophase	Threephase	
<b>Installation</b>	Wall or standing totem		
<b>Protection Class</b>	IP54 / IP65 - IK10		
<b>Voltage Range</b>	380/415 V AC 50-60 Hz		
<b>Maximum Current</b>	16A / 32A		
<b>Operating Temp.</b>	-25°C / +55°C		
<b>Body Material</b>	ABS		
<b>Screen</b>	✓	Available	
<b>RFID Reader</b>	✓	Available	
<b>OCPP</b>	✓	Available	
<b>Standard</b>	EN 61851 - 1 : 2019		
<b>Warranty</b>	2 Years		
<b>Weight</b>	2,5 Kg.		
<b>Certification</b>	CE		
<b>Packaging</b>	Box		



**AC**  
7.4 / 11 / 22 kW

**IP65**  
Socket Model

**IP66**  
Wired Model

Full Protection

QR Code

RFID

NFC

WIFI

Display

**OCPP 1.6J**

## PROTECTION FEATURES

RCD, MID, Over Current, Over Voltage, Under Voltage, Over Temperature Protection, Earth Fault, Fault Warning

## PRODUCT CODE

<b>BEV-1316-4302</b>	7,4 kW Monophase Charger with socket	<b>BEV-1332-2352</b>	7,4 kW Monophase Charger (Wired)
<b>BEV-1516-4303</b>	11 kW Threephase Charger with socket	<b>BEV-1532-2353</b>	11 kW Threephase Charger (Wired)
<b>BEV-1516-4304</b>	22 kW Threephase Charger with socket	<b>BEV-1532-2354</b>	22 kW Threephase Charger (Wired)

## MOBILE APPLICATION FEATURES

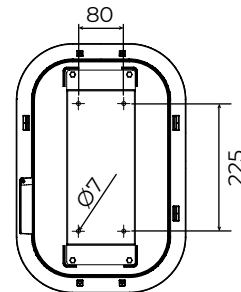
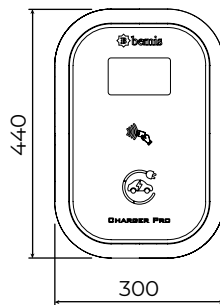
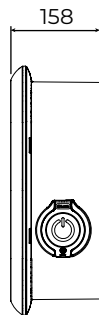
Remote access on/off, timer, charge history data tracking

[www.bemis.com.tr](http://www.bemis.com.tr)



# CHARGER PRO MODEL-3 CHARGING DEVICE

AC Output Power	22 kW
Phase	Threephase
Installation	Wall or standing totem
Protection Class	IP54 / IP65 - IK10
Voltage Range	380/415 V AC 50-60 Hz
Maximum Current	40A
Operating Temp.	-25°C / +55°C
Body Material	ABS
Screen	Available
RFID Reader	Available
OCPP	Available
Standard	EN 61851 - 1 : 2019
Warranty	2 Years
Weight	2,5 Kg.
Certification	CE
Packaging	Box



## PROTECTION FEATURES

RCD, MID, Over Current, Over Voltage, Under Voltage, Over Temperature Protection, Earth Fault, Fault Warning

## PRODUCT CODE

**BEV-3516-4304** 22 kW Threephase Charger with socket

**BEV-3532-2354** 22 kW Threephase Charger (Wired)

## MOBILE APPLICATION FEATURES

Remote access on/off, timer, charge history data tracking



# bemis

E-V CHARGE



IP66  
waterproof



dustproof



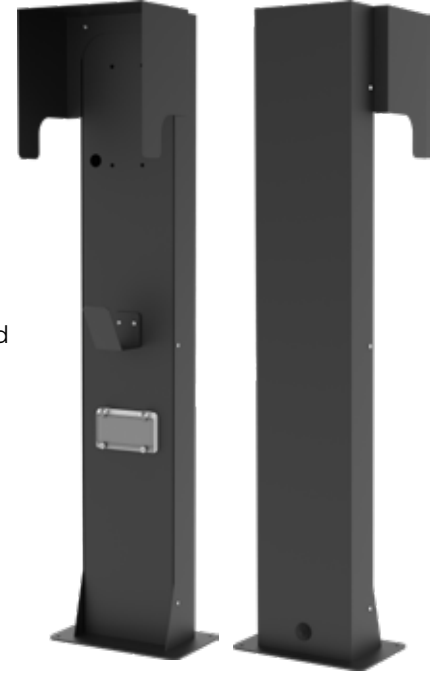
-25°C  
+55°C



## CHARGER ACCESSORIES

### PEDESTAL SPECIFICATIONS

- ▶ Manufactured from 2mm thick sheet metal with high strength.
- ▶ Electrostatic oven paint resistant to seasonal conditions.
- ▶ Strong assembly with stainless steel screws and stainless steel flanged rivet nuts.
- ▶ Cable entry from the back and bottom.
- ▶ Protection cap to protect the charger from seasonal conditions.
- ▶ Strong connection to the ground with 5mm base plate.
- ▶ Zero wall mounting thanks to the fuse panel in front possibility.
- ▶ Easy access to the fuse holder.
- ▶ Fuse box with a capacity of 8 fuses



**Pedestal  
BAK-8300-0000**



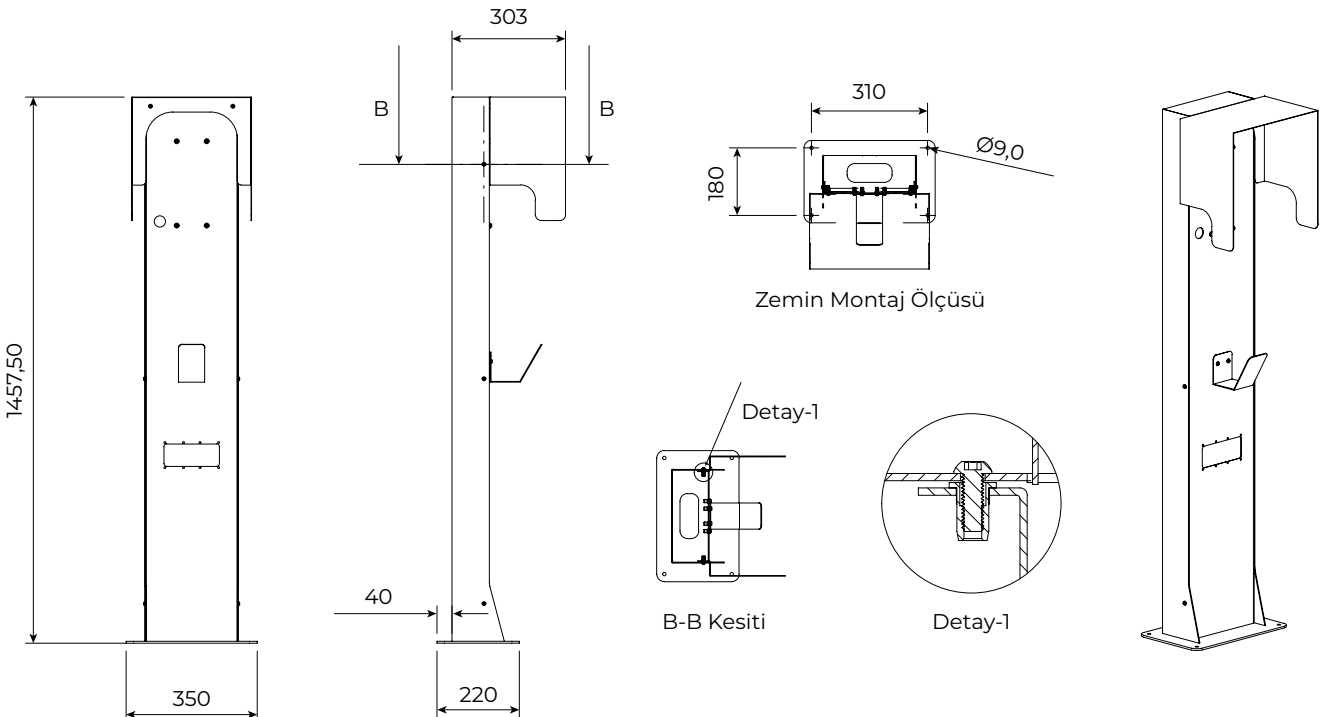
**Cable Holder**



**Fuse Box  
(8 Fuse Capacity)**



**Socket Holder  
BAK-8200-0000**

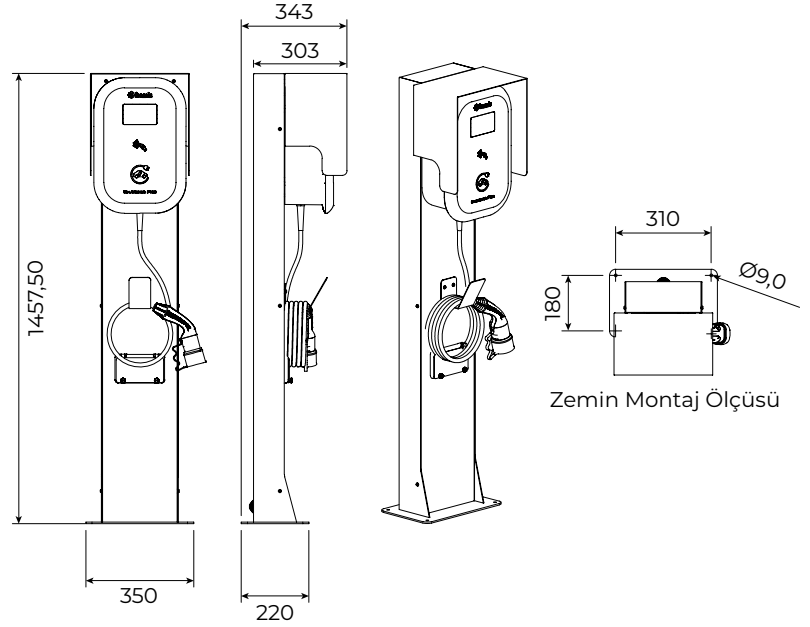




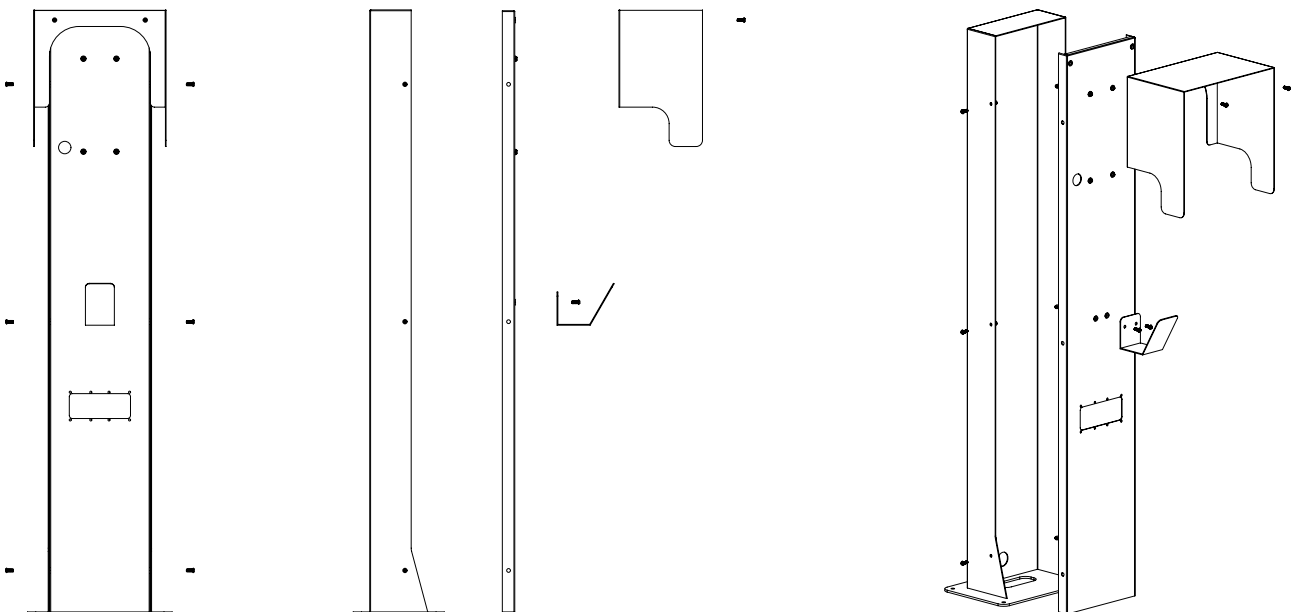


**PEDESTAL  
Socket Model  
Assembled**

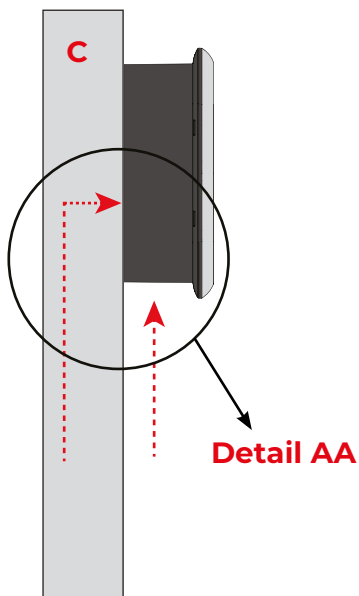
**PEDESTAL  
Wired Model  
Assembled**



**PEDESTAL ASSEMBLY DIAGRAM**



# CHARGER INSTALLATION DETAILS



- A** - Charger

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- B** - AC Supply Cable

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- C** - Device Mounting Surface

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- D** - to E-V Charging Cable

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- E** - Electric Vehicle

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- F** - Your charger may be plug and play depending on the model or It can be operated via NFC card or mobile app.

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- AA Detail** - Device supply inputs  
(Can be done from the bottom or back side)

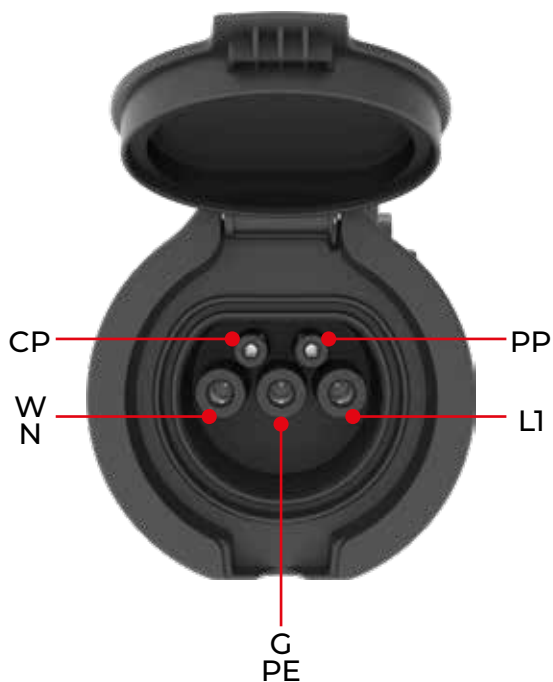
# ELECTRIC VEHICLE CHARGING SOCKETS (TYPE-1)

## (3 POINT MOUNTED)

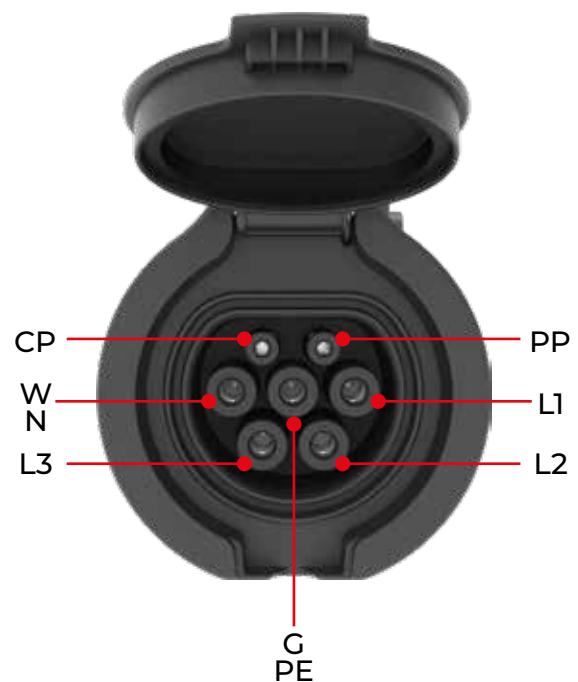
- ▶ IP65 Protection Class
- ▶ Compatible with AC-ON Board charging system (MOD-3)
- ▶ Compliant with IEC 62196-1/2 IEC 61851-1
- ▶ Type 2 (European Norm)
- ▶ Packaging: 1 Piece
- ▶ Ambient Operating Temperature: -25°C / +55°C



### MONOPHASE



### THREEPHASE



Phase : L1-L2-L3 | Neutral : N | Earth : PE | Control Pilot : CP | Communication Pilot : PP

## PRODUCT CODE

**BEV-3016-4310** 16A. Monophase

**BEV-3032-4310** 32A. Monophase

**BEV-3063-4310** 63A. Monophase

**BEV-5016-4310** 16A. Threephase

**BEV-5032-4310** 32A. Threephase

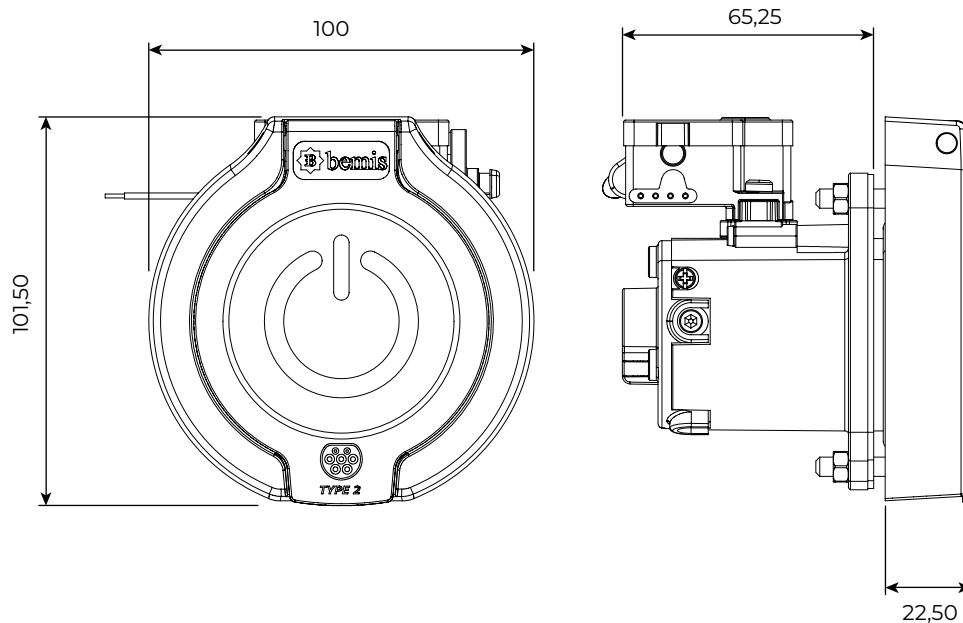
**BEV-5063-4310** 63A. Threephase

## TECHNICAL SPECIFICATIONS

<b>Number of Poles</b>	2P+PE+PP+CP / 3P+N+PE+PP+CP	<b>Contact Plating</b>	3 µm Silver
<b>Current</b>	16A-32A-63A (CP,PP) 2A	<b>Body</b>	PA6
<b>Voltage</b>	250/480V (CP,PP) 30V	<b>Body Color</b>	Black RAL 9005
<b>Contact</b>	MS58 Brass / Beryllium (CuBe <sup>2</sup> )	<b>Mounting Type</b>	From 3 Points

### LOCKING MOTOR FEATURES

<b>Contact Configuration</b>	3p / PIN 1 "Red" (+/-) PIN 2 "Blue" (Feedback Signal) PIN 3 "Black" (+/-)
<b>Nominal Voltage</b>	12V dc
<b>Application Voltage</b>	9V + 15,5V dc
<b>Max. Current Consumption</b>	3,2A (worst case)
<b>No Load Current</b>	≤ 250mA
<b>Start Time</b>	40ms < t < 200ms (Depends on voltage and operating temperature, not applicable for continuous power supply)
<b>Stance Position Balance</b>	≤ 6°C (with hot-wired motor)
<b>Working Ambient Temp.</b>	-25°C + 55°C
<b>Lifetime</b>	60.000 Switching Cycles



### PANEL SOCKET CONTACT STRUCTURE





## TECHNICAL DATA AND INSTALLATION INSTRUCTIONS

CONTACTS	CURRENT	CABLE
L1/L2/L3/N/PE	16A	2.5mm
L1/L2/L3/N/PE	32A	6mm
L1/L2/L3/N/PE	63A	16mm
CP/PP	16A/32A/63A	0.75mm

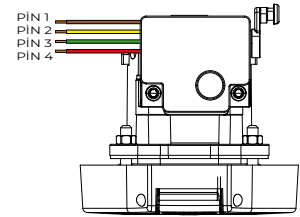
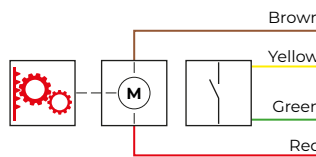
### MOUNTING TORQUE VALUES

L1/L2/L3/N/PE	1,2 Nm
CP/PP	0,8 Nm
Mounting Nuts (M5)	2 Nm

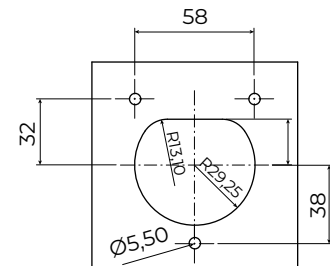
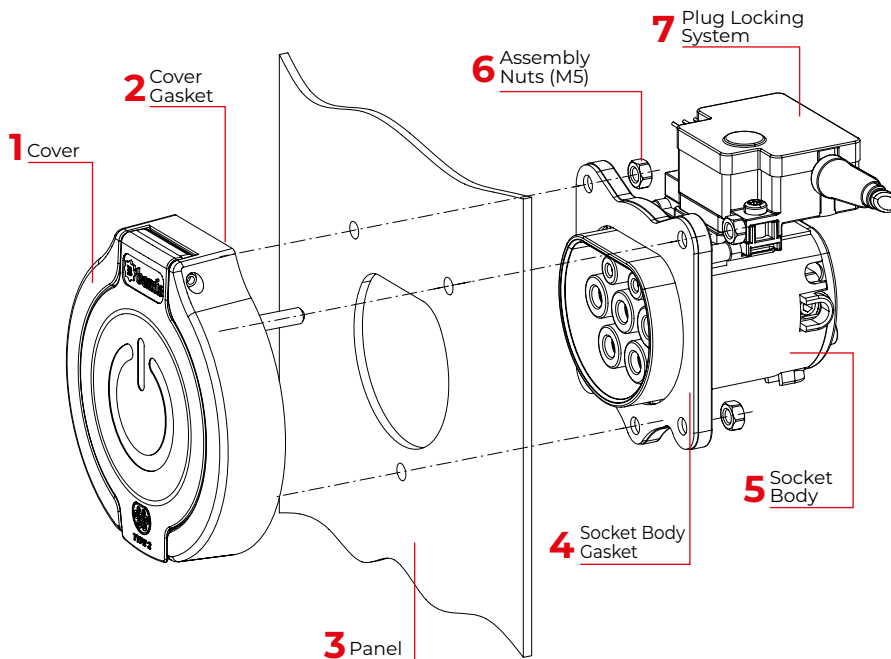
### MOTOR CONNECTION

Motor Ignition	- PiN 1	Brown
Position Feedback	K1 - PiN 2	Yellow
Position Feedback	K2 - PiN 3	Green
Engine Ignition	+ PiN 4	Red

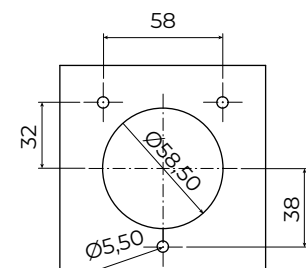
The locking motor has 4 wires. Their connection must be done as follows.  
**B:** Yellow **R:** Green + Brown **W:** Red



### MOUNTING HOLE DIMENSIONS



Shape A



Shape B

- 1- According to one of the Figure-A or Figure-B drawings in accordance with the 3-pin product drill holes
- 2- Remove the nuts of the socket and separate it from the body.
- 3- Assemble the L1-L2-L3 +N +E contacts with the help of 3 Allen keys using the appropriate cable.
- 4- Assemble the CP - PP contacts using the appropriate cable with the help of a Phillips screwdriver.
- 5- Place the socket cover on the mounting area opened on the panel.
- 6- Place the socket body together with the gasket on the inside of the panel as shown in the figure with the help of M5 nuts assemble it.

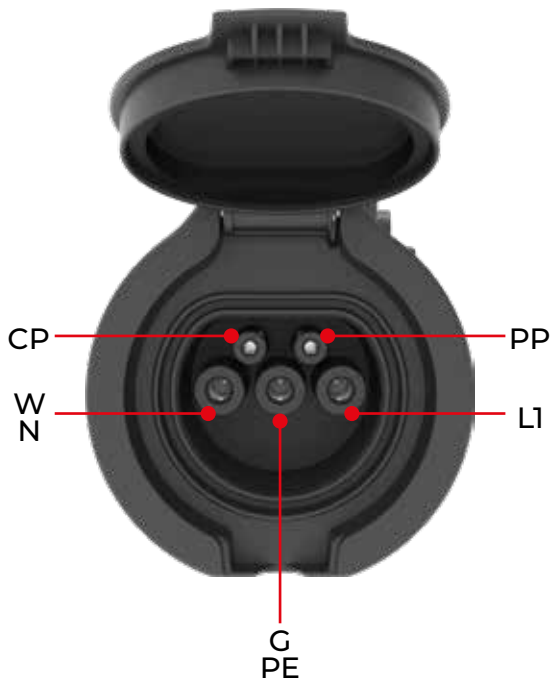
# ELECTRIC VEHICLE CHARGING SOCKETS (TYPE-2)

(4 POINT MOUNTED)

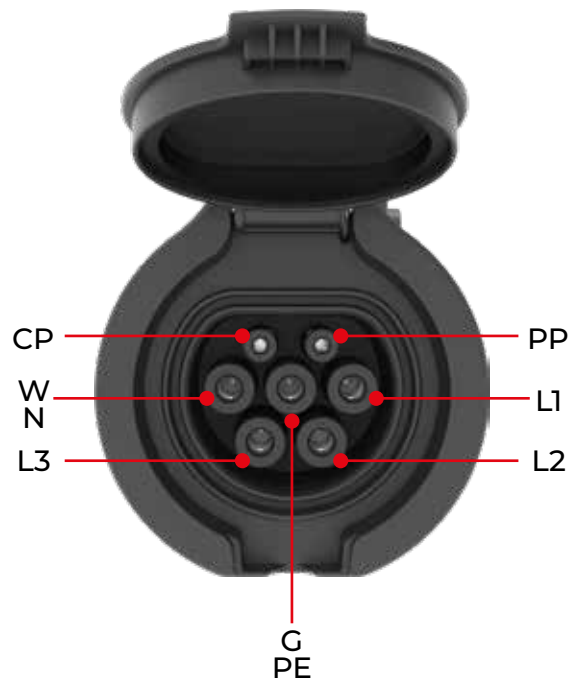
- ▶ IP65 Protection Class
- ▶ Compatible with AC-ON Board charging system (MOD-3)
- ▶ Compliant with IEC 62196-1/2 IEC 61851-1
- ▶ Type 2 (European Norm)
- ▶ Packaging: 1 Piece
- ▶ Ambient Operating Temperature: -25°C / +55°C



## MONOPHASE



## THREEPHASE



Phase : L1-L2-L3 | Neutral : N | Earth : PE | Control Pilot : CP | Communication Pilot : PP

## PRODUCT CODE

**BEV-3016-4320** 16A. Monophase

**BEV-3032-4320** 32A. Monophase

**BEV-3063-4320** 63A. Monophase

**BEV-5016-4320** 16A. Threephase

**BEV-5032-4320** 32A. Threephase

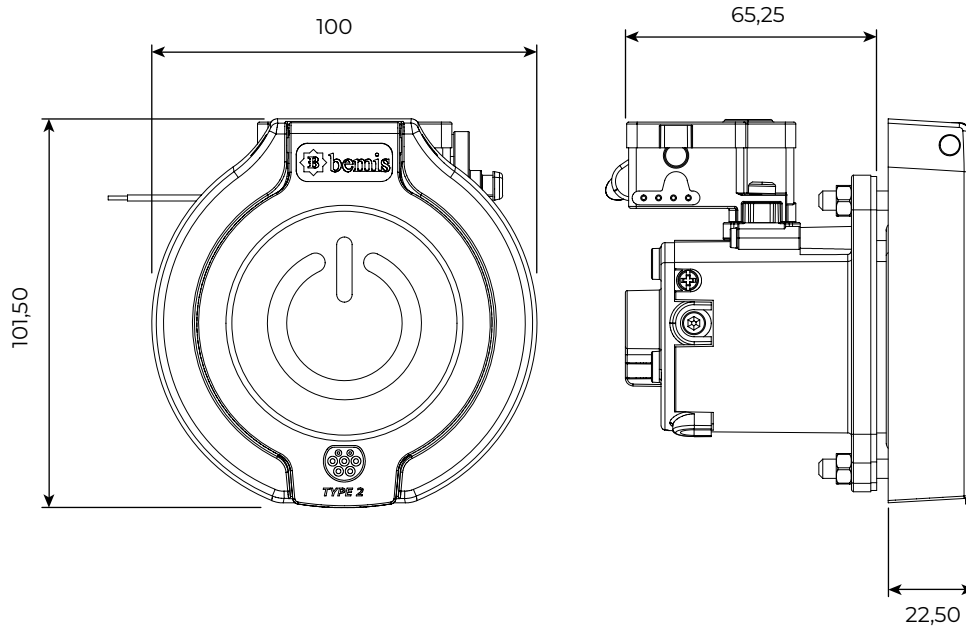
**BEV-5063-4320** 63A. Threephase

## TECHNICAL SPECIFICATIONS

<b>Number of Poles</b>	2P+PE+PP+CP / 3P+N+PE+PP+CP	<b>Contact Plating</b>	3 µm Silver
<b>Current</b>	16A-32A-63A (CP,PP) 2A	<b>Body</b>	PA6
<b>Voltage</b>	250/480V (CP,PP) 30V	<b>Body Color</b>	Black RAL 9005
<b>Contact</b>	MS58 Brass / Beryllium (CuBe <sup>2</sup> )	<b>Mounting Type</b>	From 4 Points

## KİLITLEME MOTORU ÖZELLİKLER

<b>Contact Configuration</b>	3p / PIN 1 "Red" (+/-) PIN 2 "Blue" (Feedback Signal) PIN 3 "Black" (+/-)
<b>Nominal Voltage</b>	12V dc
<b>Application Voltage</b>	9V + 15,5V dc
<b>Max. Current Consumption</b>	3,2A (worst case)
<b>No Load Current</b>	≤ 250mA
<b>Start Time</b>	40ms < t < 200ms (Depends on voltage and operating temperature, not applicable for continuous power supply)
<b>Stance Position Balance</b>	≤ 6°C (with hot-wired motor)
<b>Working Ambient Temp.</b>	-25°C + 55°C
<b>Lifetime</b>	60.000 Switching Cycles



## PANEL SOCKET CONTACT STRUCTURE



## TECHNICAL DATA AND INSTALLATION INSTRUCTIONS

CONTACTS	CURRENT	CABLE
L1/L2/L3/N/PE	16A	2.5mm
L1/L2/L3/N/PE	32A	6mm
L1/L2/L3/N/PE	63A	16mm
CP/PP	16A/32A/63A	0.75mm

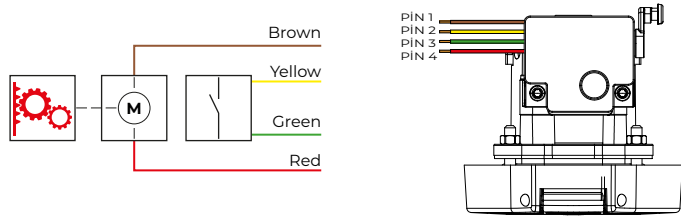
### MOUNTING TORQUE VALUES

L1/L2/L3/N/PE	1,2 Nm
CP/PP	0,8 Nm
Mounting Nuts (M5)	2 Nm

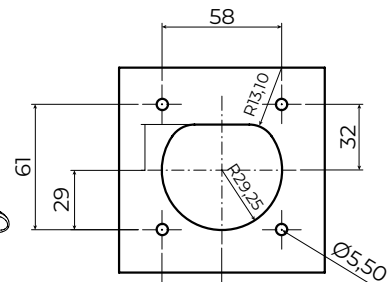
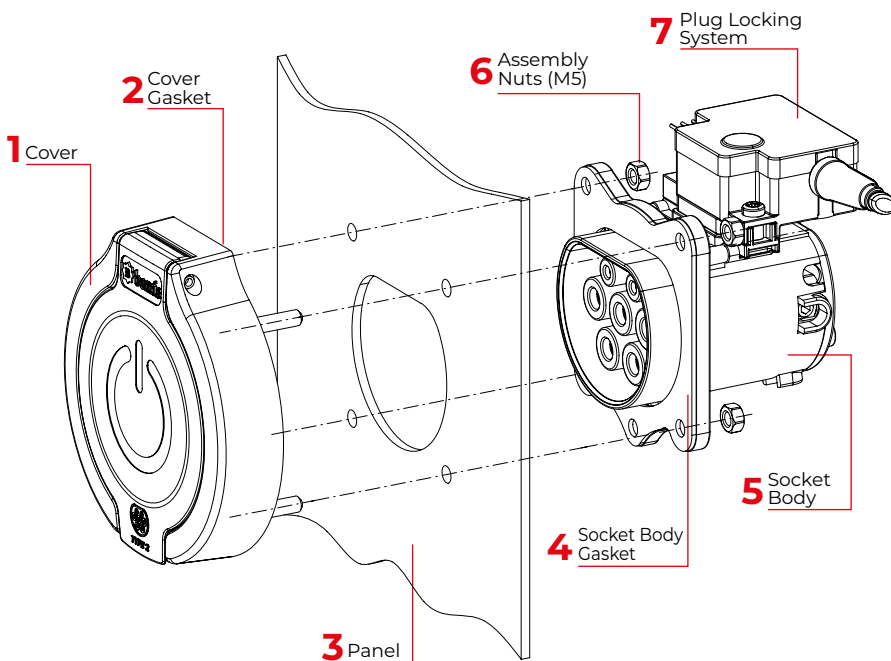
### MOTOR CONNECTION

Motor Ignition	- PiN 1	Brown
Position Feedback	K1 - PiN 2	Yellow
Position Feedback	K2 - PiN 3	Green
Engine Ignition	+ PiN 4	Red

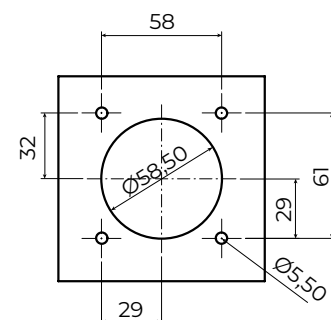
The locking motor has 4 wires. Their connection must be done as follows.  
**B:** Yellow **R:** Green + Brown **W:** Red



### MOUNTING HOLE DIMENSIONS



Shape A



Shape B

- 1- According to one of the Figure-A or Figure-B drawings in accordance with the 4-pin product drill holes
- 2- Remove the nuts of the socket and separate it from the body.
- 3- Assemble the L1-L2-L3 +N +E contacts with the help of 3 Allen keys using the appropriate cable.
- 4- Assemble the CP - PP contacts with the help of a Phillips screwdriver using the appropriate cable.
- 5- Place the socket cover on the mounting area opened on the panel.
- 6- Place the socket body together with the gasket on the inside of the panel as shown in the figure with the help of M5 nuts assemble it.



Cable lengths of 5 and 8 meters are available as standard. Production in the requested cable length It can be done.





# ELECTRIC VEHICLE CHARGER PLUGS AND EXTENSION SOCKETS

- ▶ IP54 protection class
- ▶ 5 and 8 meter cable options
- ▶ Suitable for Mode 3 charging system
- ▶ Type 2 (European Norm)







## EXTENSION PLUG

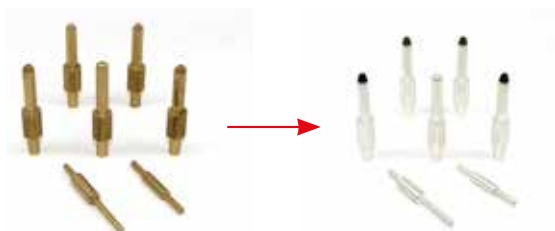


## EXTENSION SOCKET



MONOPHASE		
THREEPHASE		

### EXTENSION PLUG CONTACT STRUCTURE



Brass Contacts  
MS58

Silver Plating  
3 μm

### EXTENSION SOCKET CONTACT STRUCTURE



Brass Contacts  
MS58

Silver Plating  
3 μm

Beryllium  
(CuBe<sup>2</sup>)

## PRODUCT CODES

Product Code	Description	Phase	Amps	Cable Length
<b>BEV-3020-1205</b>	Wired Plug + Socket Extension Set	Monophase	20A.	5 Meters
<b>BEV-3020-1208</b>	Wired Plug + Socket Extension Set	Monophase	20A.	8 Meters
<b>BEV-3032-1205</b>	Wired Plug + Socket Extension Set	Monophase	32A.	5 Meters
<b>BEV-3032-1208</b>	Wired Plug + Socket Extension Set	Monophase	32A.	8 Meters
<b>BEV-5020-1205</b>	Wired Plug + Socket Extension Set	Threephase	20A.	5 Meters
<b>BEV-5020-1208</b>	Wired Plug + Socket Extension Set	Threephase	20A.	8 Meters
<b>BEV-5032-1205</b>	Wired Plug + Socket Extension Set	Threephase	32A.	5 Meters
<b>BEV-5032-1208</b>	Wired Plug + Socket Extension Set	Threephase	32A.	8 Meters
<b>BEV-3020-2205</b>	Wired Socket Outlet End Open	Monophase	20A.	5 Meters
<b>BEV-3020-2208</b>	Wired Socket Outlet End Open	Monophase	20A.	8 Meters
<b>BEV-3032-2205</b>	Wired Socket Outlet End Open	Monophase	32A.	5 Meters
<b>BEV-3032-2208</b>	Wired Socket Outlet End Open	Monophase	32A.	8 Meters
<b>BEV-5020-2205</b>	Wired Socket Outlet End Open	Threephase	20A.	5 Meters
<b>BEV-5020-2208</b>	Wired Socket Outlet End Open	Threephase	20A.	8 Meters
<b>BEV-5032-2205</b>	Wired Socket Outlet End Open	Threephase	32A.	5 Meters
<b>BEV-5032-2208</b>	Wired Socket Outlet End Open	Threephase	32A.	8 Meters
<b>BEV-3020-3200</b>	Plug	Monophase	20A.	Without cable
<b>BEV-3032-3200</b>	Plug	Monophase	32A.	Without cable
<b>BEV-5020-3200</b>	Plug	Threephase	20A.	Without cable
<b>BEV-5032-3200</b>	Plug	Threephase	32A.	Without cable
<b>BEV-3020-2200</b>	Socket	Monophase	20A.	Without cable
<b>BEV-3032-2200</b>	Socket	Monophase	32A.	Without cable
<b>BEV-5020-2200</b>	Socket	Threephase	20A.	Without cable
<b>BEV-5032-2200</b>	Socket	Threephase	32A.	Without cable

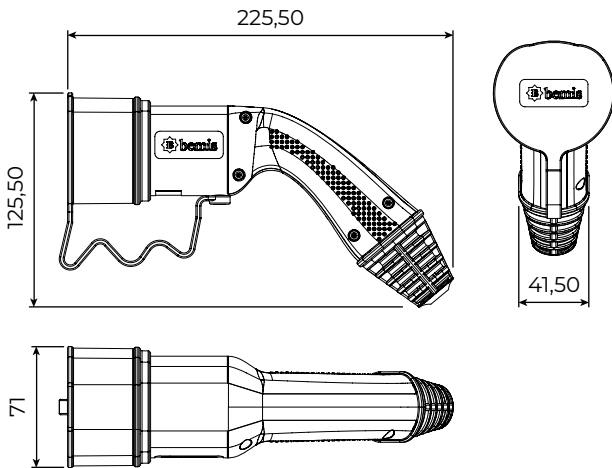
## COLOR OPTIONS



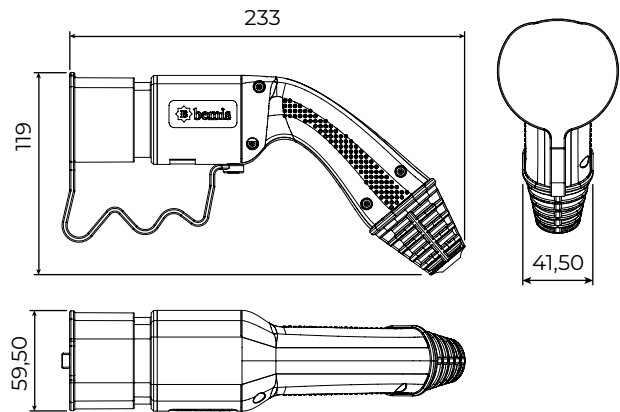
**Note:** The standard color of the product is **GRAY**, other color options are produced on order.  
Special color production requirement is minimum 500 pieces.

## TECHNICAL SPECIFICATIONS

### EXTENSION SOCKET



### EXTENSION PLUG



### SOCKET CHARGER SET



### PLUG AND SOCKET CHARGING SET



### PLUG - SOCKET CHARGING SET CASE



Extension plug with bags that you can conveniently carry in the trunk of your car and get rid of cable clutter by keeping our socket sets organized.

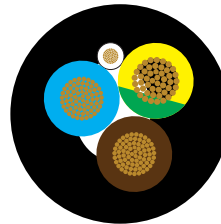
**Note: Bags are not included, must be ordered separately.**

**Product Code: BAK-8000-0000**

# CABLE SPECIFICATIONS

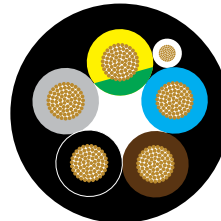
## CHARGING CABLE FOR ELECTRIC VEHICLES

(According to DIN EN 50620 Standards)



3x2,5 mm<sup>2</sup> + 1x0,75 mm<sup>2</sup>  
3x6 mm<sup>2</sup> + 1x0,75 mm<sup>2</sup>

**3 Contact + Pilot**



5x2,5 mm<sup>2</sup> + 1x0,75 mm<sup>2</sup>  
5x6 mm<sup>2</sup> + 1x0,75 mm<sup>2</sup>

**5 Contact + Pilot**

## TECHNICAL INFORMATION

<b>CONDUCTIVE MATERIAL</b>	
<b>Material</b>	Pure copper
<b>Structure</b>	Circular, flexible, conforming to EN 60228 class 5
<b>ISOLATION</b>	
<b>Material</b>	Halogen-free EVI-2 type compound according to EN 50620
<b>IDENTIFICATION</b>	
<b>3 Contact + Pilot</b>	Blue - Brown - Yellow/Green + White
<b>5 Contact + Pilot</b>	Blue - Brown - Black - Gray - Yellow/Green + White

### 1 PHASE - 20A - MAX. CAPACITY : 3,7 KW

<b>Resistance</b>	680 Ω
<b>Cable Variant</b>	3x2.5 + 1x0.75 mm <sup>2</sup>
<b>Cable Color</b>	Black
<b>Cable Diameter (Ø)</b>	11 mm

### 3 PHASE - 20A - MAX. CAPACITY : 11 KW

<b>Resistance</b>	680 Ω
<b>Cable Variant</b>	5x2.5 + 1x0.75 mm <sup>2</sup>
<b>Cable Color</b>	Black
<b>Cable Diameter (Ø)</b>	13 mm

### 1 PHASE - 32A - MAX. CAPACITY : 7,4 KW

<b>Resistance</b>	220 Ω
<b>Cable Variant</b>	3x6 + 1x0.75 mm <sup>2</sup>
<b>Cable Color</b>	Black
<b>Cable Diameter (Ø)</b>	14 mm

### 3 PHASE - 32A - MAX. CAPACITY : 22 KW

<b>Resistance</b>	220 Ω
<b>Cable Variant</b>	5x6 + 1x0.75 mm <sup>2</sup>
<b>Cable Color</b>	Black
<b>Cable Diameter (Ø)</b>	17 mm

## WHAT IS V2L (VEHICLE-TO-LOAD)?

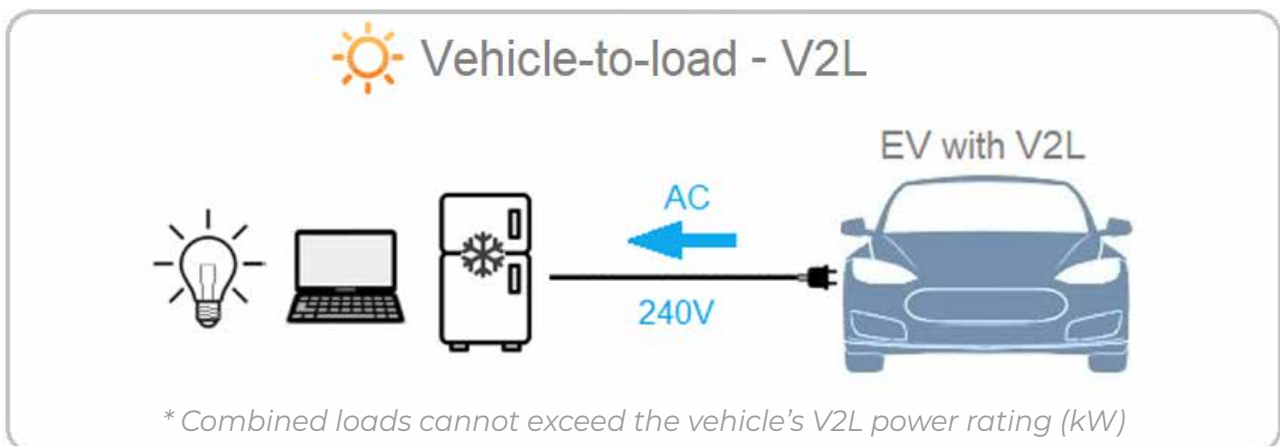
V2L, or “Vehicle-to-Load,” refers to the transfer of electric vehicles’ (EVs) electrical power to external devices or technology, which refers to the ability to transfer electricity to systems. This technology enables electric vehicles by providing the energy it stores to various devices, homes or other electric vehicles allows it to be used as a mobile energy source.

## HOW DOES IT WORK?

- 1- Energy Storage:** The vehicle stores energy in its battery by charging.
- 2- Energy Transmission:** The inverter in the vehicle converts the direct current (DC) in the battery into alternating current (AC).
- 3- Connection and Distribution:** External devices access energy through the vehicle’s V2L port.
- 4- Utilization:** The devices use this energy from the vehicle.

## WHAT ARE THE ADVANTAGES?

- 1- Emergency Power Supply:** It can power home appliances in power outages or disasters.
- 2- Portability:** Can be used in outdoor activities such as camping.
- 3- Energy Saving:** The energy in the battery can be used even when the vehicle is parked.
- 4- Backup Power:** It can be a backup power source for homes, reducing energy costs.
- 5- Environmental Benefits:** Reduces carbon emissions by reducing the use of fossil fuels.



The V2L adapter provides a maximum power output of 3.5 kW at 220V from the charging socket of your electric vehicle, allowing many electrical devices to operate.



## V2L ADAPTERS

\* Resistance values of the products vary according to vehicle models. Compatible according to the vehicle production is carried out in this way.

Single Socket Extension  
V2L Adapter



BEV2L-3201-3203

2 Way Socket Extensions  
V2L Adapter



BEV2L-3202-3203

3 Way Socket Extension  
V2L Adapter



BEV2L-3203-3203

Single Output  
V2L Adapter



BKT-2102-2001

## CONVERTER ADAPTERS

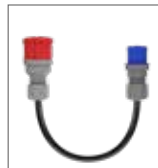
\* Cable lengths are 30 cm.

5/16A Socket  
1/16A Plug



BKT-0108-2211

5/16A Socket  
3/16A Plug



BKT-0508-2211

5/16A Socket  
5/32A Plug



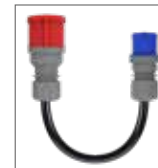
BKT-1008-2511

5/32A Socket  
1/16A Plug



BKT-0111-2211

5/32A Socket  
3/16A Plug

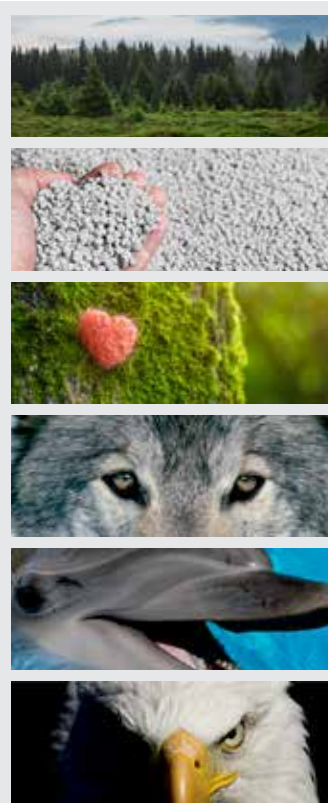
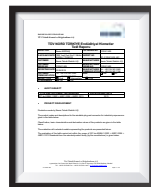


BKT-0511-2211

5/32A Socket  
5/16A Plug



BKT-0711-2511



respect for nature

GES (Solar Energy System) electricity generation

ECO energy consumption, led lighting and daylight utilization system

ECO water consumption rainwater recycling and eco faucet use

Support for afforestation.

Use of recycled raw materials and recovery system

Waste control and minimum waste system It is implemented in Bemis company.

Plug & socket recycling project



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