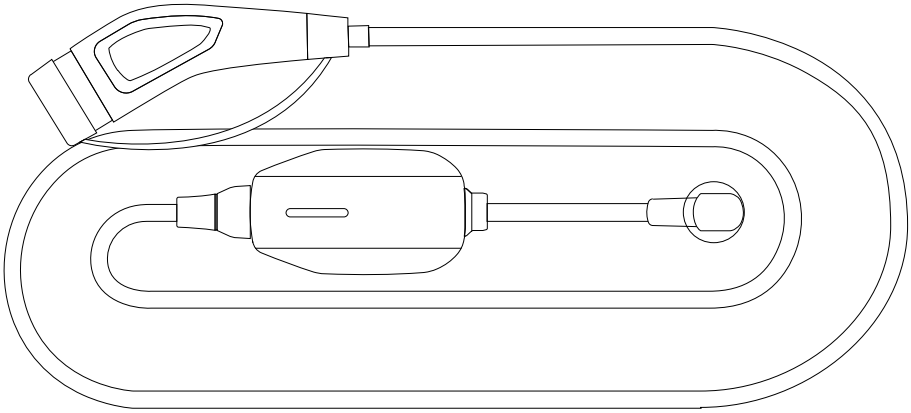

Multifunction Charger (MFC)

INSTRUCTIONS FOR USE.
ORIGINAL BMW ACCESSORIES.

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1 Information 4
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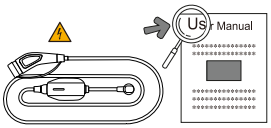
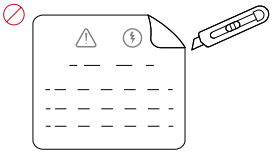
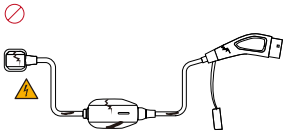
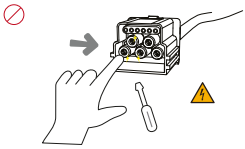
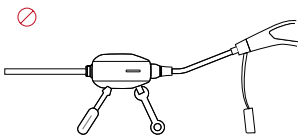
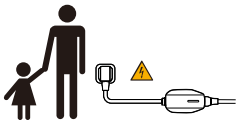
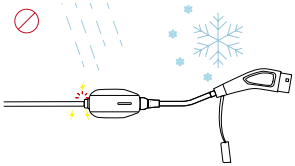
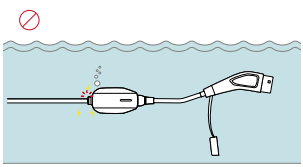
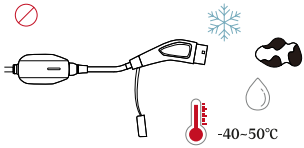
1 Information

1.1 Safety Information

WARNING: RISK OF FIRE OR ELECTRIC SHOCK
The electrical installation must comply with all applicable national regulations and standards.
Use the MFC only on circuits protected by a suitably rated circuit breaker.
Read these instructions for use before using the MFC.
Take increased ambient temperatures in the control cabinet into account. ◂

WARNING: HOT SURFACE
Under certain circumstances, operation of the MFC can cause high temperatures at the surface of the components. Be aware of the high temperature to prevent burns. ◂

1.2 Important safety instructions

		
Read this information carefully before installing or operating the device. Use the MFC only for charging or discharging BMW vehicles.	Do not remove or alter any identification labels, safety symbols, warning instructions or cable markings.	Do not operate the MFC if any part of the socket, cable, connector, or housing is damaged or contaminated.
		
Do not insert fingers or any foreign objects into the connector.	Do not make any unauthorised modifications or repairs to the MFC.	Children must be supervised when the MFC is connected or in operation.
		
Do not expose electrical contacts to water or snow.	Do not submerge the device in water.	Keep the contact area clean, dry and away from heat sources.

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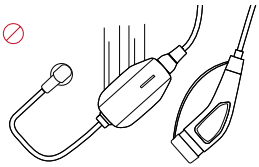
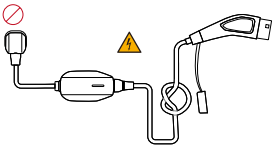
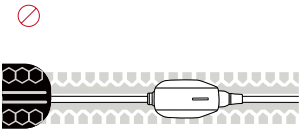
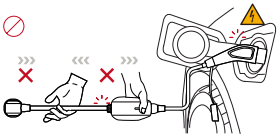
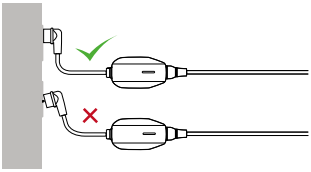
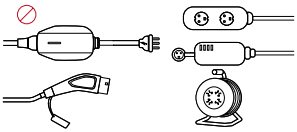
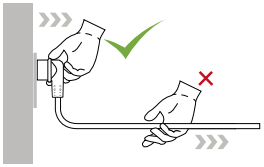
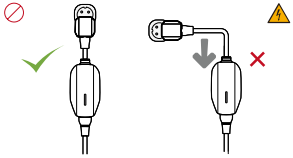
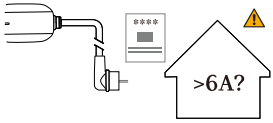
		
Do not drop the MFC or the mains adapter cable.	Do not bend, twist, or knot the charging cable.	Do not drive over the MFC, adapter or charging cable.
		
Do not disconnect the main adapter cable while it is in charging session, neither from the function box nor from the power socket.	Ensure that the plug is fully connected before use.	Do not use the MFC with extension cords, cable drums, multiple sockets, travel adapters, timers or adapters of the vehicle connector.

		
Remove MFC from the domestic outlet using the plug rather than the cable.	Use the MFC only with socket outlets that allow the plug to be connected so that the cable exits downward without being bent or twisted. Do not use the MFC if the socket outlet or grounding-pin orientation causes the cable to exit sideways, upward, or in another unfavorable direction. Such configurations may place excessive mechanical load on the plug, socket outlet, and cable. For these socket configurations, a suitable wall mount and an extended Mode 2 adapter may be required. Please contact your BMW dealer for further information.	Verify that the electrical installation is suitable for the specified voltage and current rating.

Do NOT use this product if the MFC or EV cable is frayed, has broken insulation, or any other signs of damages.

You can find the maximum charging voltage / current in the chapter International Plugs.

1.3 Intended use

Attention

- The MFC may only be operated under the specified environmental conditions (see chapter 'Technical data').
- Do not use the MFC in areas where explosive atmospheres may exist.
- The housing of the MFC heats up at high temperatures or in direct sunlight. Avoid direct sunlight on the MFC to achieve optimum charging performance.

- The MFC may not operate if used on IT or other unearthed systems such as an isolated winding generator or isolating transformer.
- The MFC must be grounded. If there is malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The MFC is equipped with a mains adapter that has a grounding conductor and a grounded plug.
- Only use original adapters cables.
- Do not connect the mains adapter or Mode 3 adapter to any other electrical power source, such as electric generators etc.
- The MFC shall be plugged in directly into the fixed socket-outlet without the use of an extension cord.
- To reduce the risk of fire, connect only to a circuit provided with branch circuit over current protection in accordance with Local National Installation Standards. The size of over current protection equals 120% of the input current rating.
- The adapters of the MFC shall not be connected or disconnected while the MFC is in use.
- It is essential to disconnect the mains plug from the domestic outlet during the install and uninstall of the mains adapter and MFC. Always seal the MFC vehicle connector with the cap after use.
- MFC shall only be cleaned with a dry cloth.
- Ensure that the device is disconnected from both the power grid and the vehicle while cleaning.
- Do not use cleaning supplies or flammable solvents, such as alcohol or benzene.
- Do not wash your vehicle with the MFC plugged in.
- Repair work to MFC must only be performed by the manufacturer.

WARNING
It is essential to follow all instructions in this manual precisely. Failure to do so may result in hazardous situations or impair the proper operation of safety functions. In addition, all applicable safety and accident prevention regulations must be observed. ◂

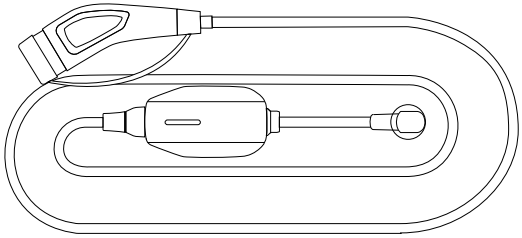
1.4 About this manual

Please note that the manual and functions described herein are applicable to the following type:

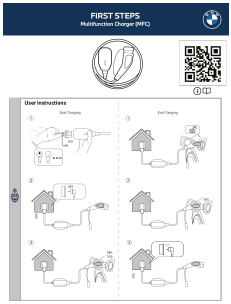
Multifunction Charger (MFC) Type2 Variant 3 Phase 16A.

The illustrations and explanations contained in this manual refer to a typical version of the device. Please note that your device version may differ from the one described here. This manual is intended for specific target groups, such as end customers (users of MFC).

1.5 Scope of delivery



Type2 Variant 3 Phase 16A



Quick Safety Guide

1.6 Warranty

The service department can provide additional information regarding the warranty. Please note that the following cases are not covered:

- Defects or damage caused by installation work that does not follow the instructions or by using the product in a way that is not specified in the manual.
- Costs and damage caused by repair work not carried out by a specialist electrician authorised by a sales outlet or an authorised service workshop.

If you have any questions or need further assistance, please contact customer service. For more information, please refer to your vehicle's manual.

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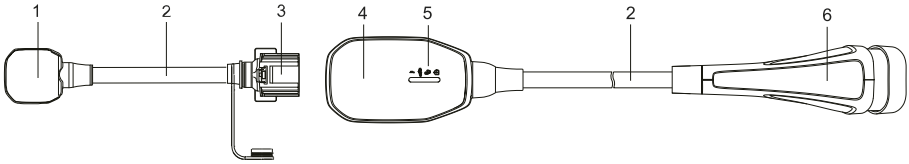
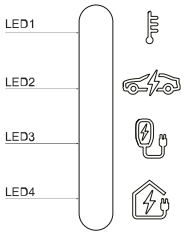
2 Overview

2.1 Overview and description



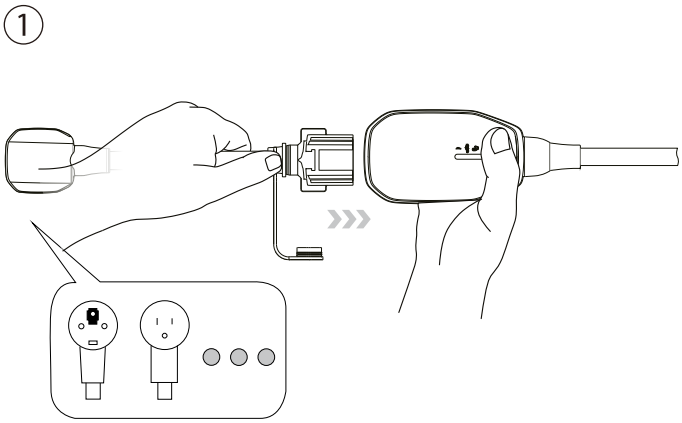


1	Mains plug
2	Cable
3	Quick change connect
4	Function box
5	LED indicator
6	Vehicle connector

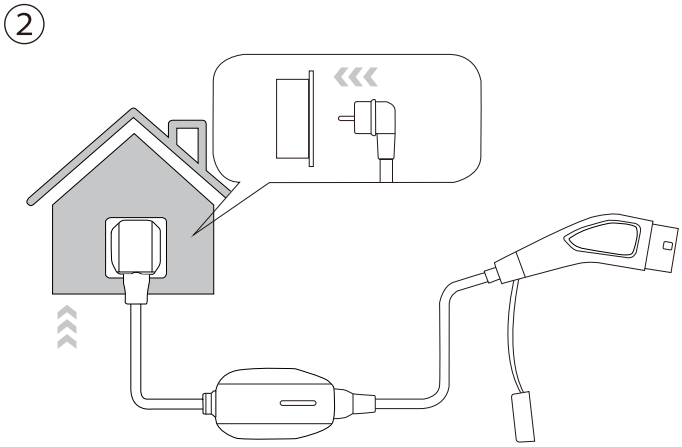
CAUTION:
Ensure the electrical installation is capable of handling the voltage/amperage requirements ahead of usage and if needed, activate the power limitation in the charging settings of your BMW vehicle. You can find the maximum charging voltage / current in the chapter International Plugs. ◂

3 Operation

3.1 Start charging

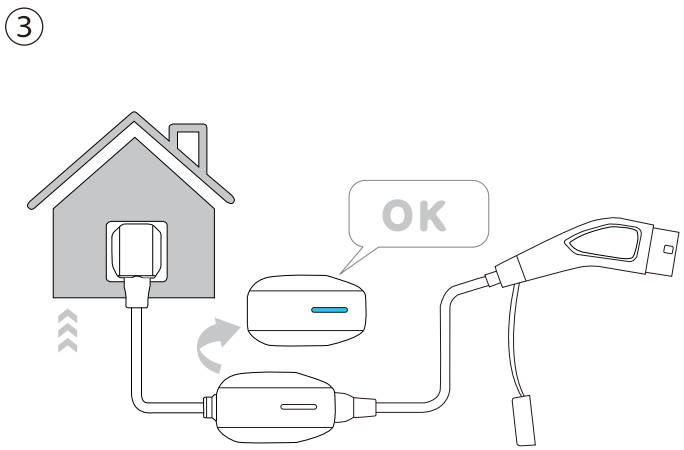


1. Make sure the mains plug and the vehicle connector are disconnected. Connect the mains adapter to MFC Function Box, plug in the quick change connect to function box until hearing a click sound.

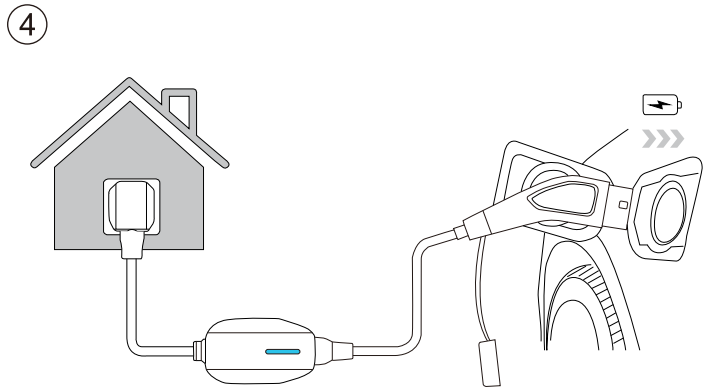


2. Connect the mains plug of adapter to a domestic outlet.

EN



3. The MFC will perform a self-check. During this period all four blue LEDs will light up with lower brightness for about 1 second. After the self-check, the blue LEDs show full brightness and no red LED indicates the MFC is ready for charging.

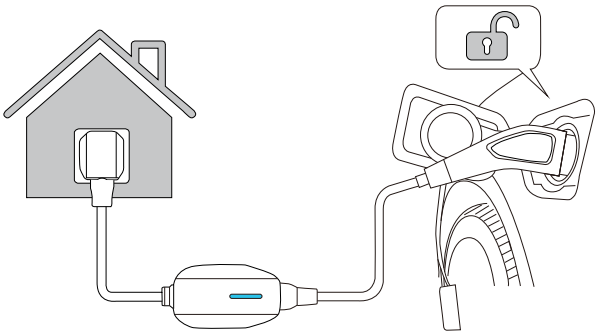


4. Connect the MFC vehicle connector to the EV (electric vehicle) inlet. The charging session will start automatically, and the blue LEDs will start breathing.

Warning:
Park the vehicle close enough to the socket outlet so that the cable is not under tension. Ensure that MFC will not be stepped on to avoid damage. ◂

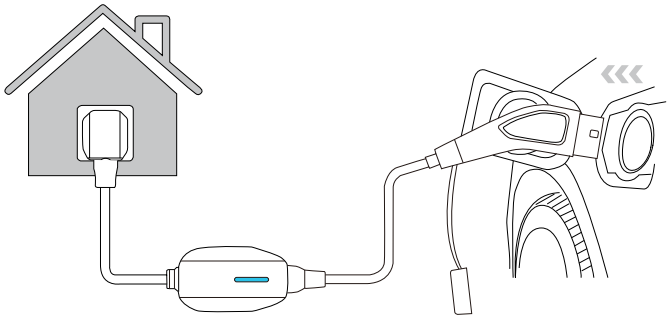
3.2 Stop charging

①



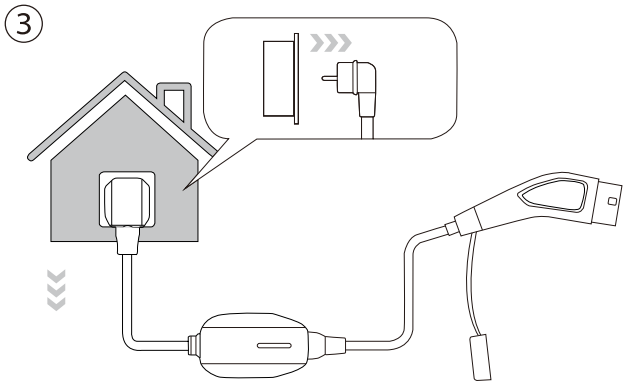
1. Stop charging sessions at the EV. (For detailed instructions, refer to the EV instruction manual.)

②



2. Disconnect the vehicle connector from the EV (Electric Vehicle) inlet.

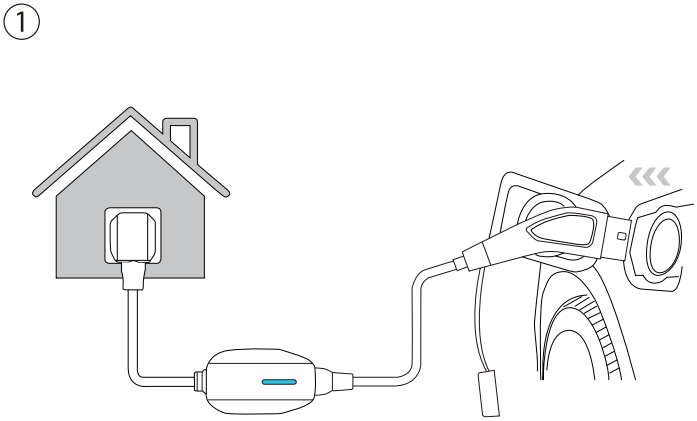
EN



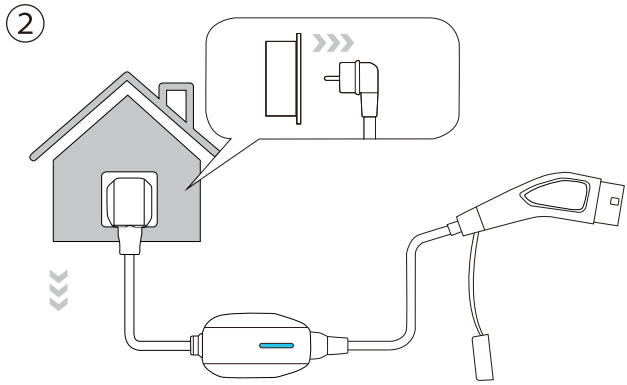
3. Disconnect the mains plug from the domestic outlet.

WARNING:
Disconnecting the MFC, the mains plug or the quick change connect while charging or under load may damage the device and create a hazardous situation. ◂

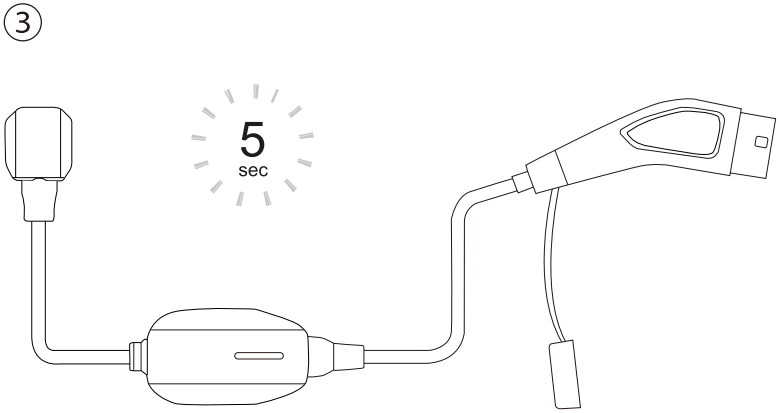
3.3 Manual restart



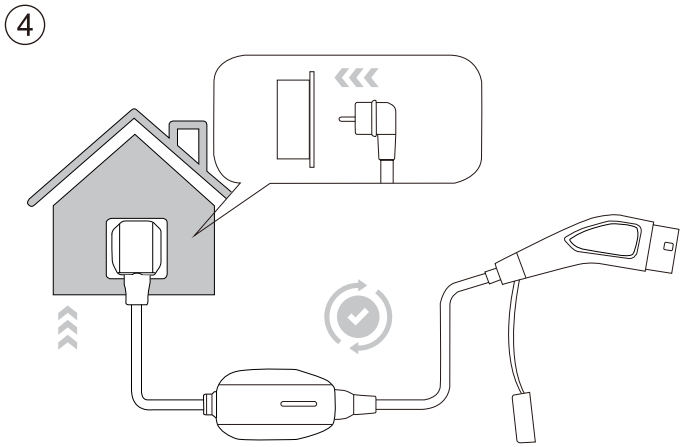
1. Disconnect the MFC from the vehicle by unplugging the vehicle connector.



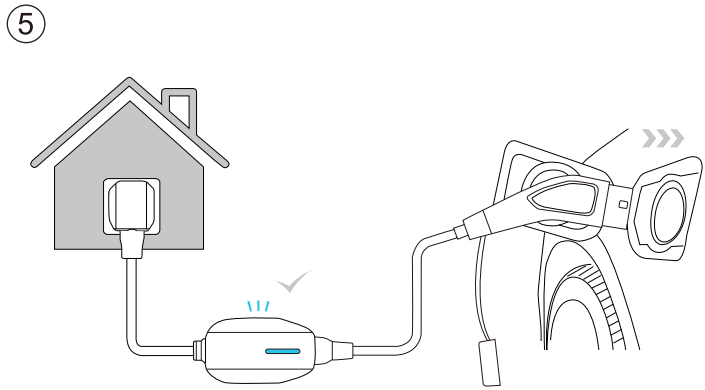
2. Disconnect the MFC from the mains supply by unplugging the mains plug from the socket outlet.



3. Wait for at least 5 seconds.

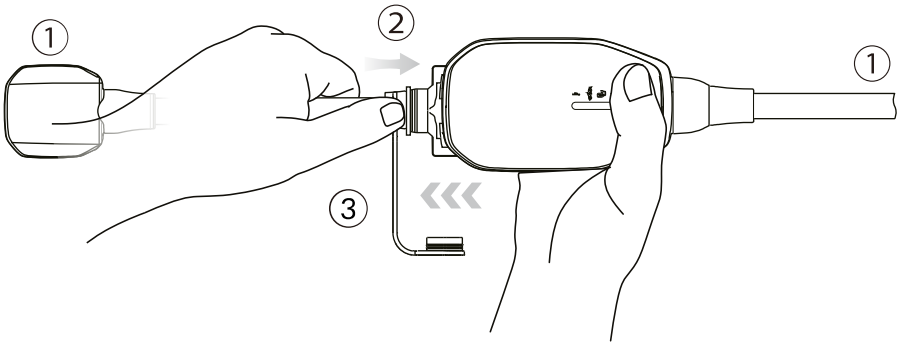


4. Reconnect the MFC to the mains supply and wait for the completion of the MFC self-check.



5. Reconnect the MFC to the vehicle and check if the charging process is starting.

3.4 Uninstall mains adapter

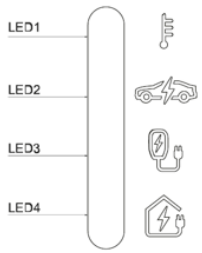


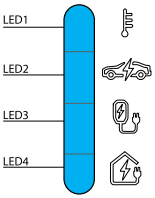
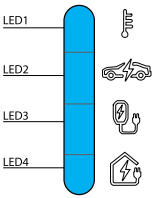
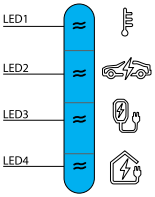
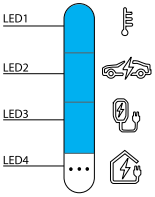
1. Make sure the mains plug and the vehicle connector are disconnected.
2. Press the button on adapter.
3. Pull out function box using the other hand.

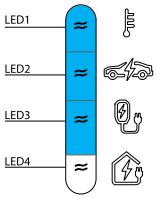
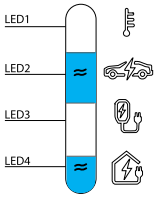
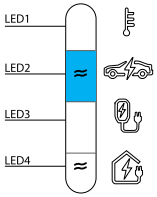
Reconnection of quick change connect from the function box under load may cause an error message (LED 1&2: Red). Before dis- or reconnecting the quick change connect from the function box, ensure always that the vehicle connector is disconnected from the vehicle and the mains adapter is disconnected from the domestic outlet plug first. ◂

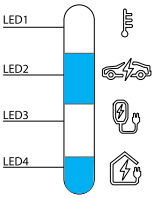
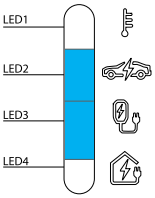
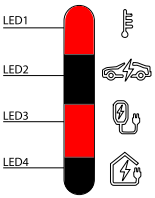
4 LED indicator table & Troubleshooting

Contact your local dealer or customer support if the product malfunctions or the LED indicators display a fault status. Do not open the product or remove circuit protective devices or any other component.

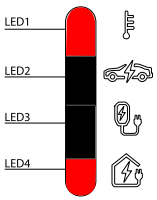
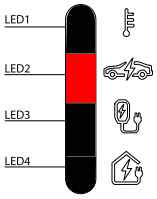
	LED1	Temperature error
	LED2	Vehicle side error
	LED3	MFC error
	LED4	Infrastructure error

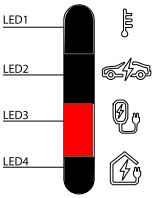
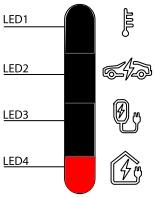
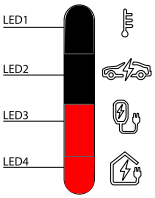
LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Self testing / Standby Mode unhooked	LED 1-4: Blue 10% stable	No action required.
	Readiness / Charging completed	LED 1-4: Blue 100 % stable	No action required.
	Charging / discharging	LED 1-4: Blue 10% to 100% breathing	No action required.
	Protective earth monitoring is deactivated. Stand-By / Ready for Charging.	LED 1-3: Blue 100 % stable LED 4: White Blink	1. Protective earth monitoring is disabled. This can be a normal behavior in IT- or TT grid situations (Norway, Belgium, Japan). 2. In TN grid it can indicate an earthing issue of the electrical installation. 3. The installation should be checked by a qualified electrician. 4. Charging is still possible.

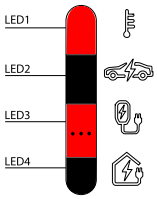
LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Protective earth monitoring is deactivated. / MFC is charging.	LED 1-3: Blue breathing LED 4: White breathing	1. Protective earth monitoring is disabled. This can be a normal behavior in IT- or TT grid situations (Norway, Belgium, Japan). 2. In TN grid it can indicate an earthing issue of the electrical installation. 3. The installation should be checked by a qualified electrician. 4. Charging is still possible.
	Derating / MFC Function Box too hot	LED 1&3: White 80% stable LED 2&4: Blue 10% to 100% breathing	Keep the charger away from direct sunlight and high ambient temperatures to improve charging performance.
	Protective conductor monitoring deactivated. / High temperatures detected in MFC. / Charging with reduced power.	LED 1&3: White 100% stable LED 2: Blue breathing LED 4: White breathing	Keep the charger away from direct sunlight and high ambient temperatures to improve charging performance.

LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Overtemperature charging PAUSE MFC Function Box too hot	LED 1&3: White 100 % stable LED 2&4: Blue 100 % stable	1. When MFC returns to acceptable operation temperature, charging will restart automatically. 2. Keep the charger away from direct sunlight and high ambient temperatures to improve charging performance.
	Overtemperature charging PAUSE plug too hot	LED 1&4: White 100 % stable LED 2&3: Blue 100 % stable	1. Keep the charger away from direct sunlight and high ambient temperatures to improve charging performance. 2. Charging will restart automatically once the charger has cooled down.
	Overtemperature charging STOP caused by function box	LED 1&3: Red 100 % stable	1. Keep the charger away from direct sunlight and high ambient temperatures to improve charging performance. 2. Unplug vehicle connector and infrastructure adapter. 3. Let MFC cool down. 4. Repeat charging/ discharging start procedure. 5. Try to reduce charging current in the vehicle menu to avoid overheating.

EN

LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Overtemperature charging STOP caused by infrastructure	LED 1&4: Red 100% stable	1. Keep the charger away from direct sunlight and high ambient temperatures. 2. Charging: Unplug vehicle connector and infrastructure adapters. 3. Charging: Let MFC and adapters cool down and repeat charging start procedure. 4. Discharging: Unplug loads from discharging adapter. 5. Discharging: Let MFC and adapters cool down and repeat discharging start procedure. 6. Try to use load devices with reduced power.
	Fault caused by vehicle	LED 2: Red 100% stable	1. Unplug vehicle connector and infrastructure adapter. 2. Look for vehicle or smartphone app messages. 3. Repeat Charging / Discharging start procedure. 4. If error persists, contact your BMW Service Partner.

LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Fault caused by MFC	LED 3: Red 100% stable	1. Unplug vehicle connector and infrastructure adapter. 2. Look for vehicle or smartphone app messages. 3. Repeat Charging / Discharging start procedure. 4. If error persists, contact your BMW Service Partner.
	Charging: Fault in the power supply / Overvoltage / Undervoltage / Grid instabilities. Discharging: Fault in discharging adapter.	LED 4: Red 100% stable	1. Unplug vehicle connector and infrastructure adapter. 2. Look for vehicle or smartphone app messages. 3. Repeat Charging / Discharging start procedure. 4. If error persists, contact your BMW Service Partner.
	Unknown or incompatible adapter	LED 3-4: Red 100% stable	1. Unplug vehicle connector and infrastructure adapter. 2. Disconnect Quick-Change Interface. 3. Avoid dirt or moisture at electrical contacts. 4. Repeat Charging / Discharging start procedure. 5. If error persists, contact your BMW Service Partner.

LED Lighting Scheme	Status	LED Color & Brightness	Troubleshooting
	Unrecoverable error	LED 3: Red Blink	Immediately stop using the MFC. Unplug infrastructure plug from socket. Please contact your BMW Service Partner.

5 Specifications

5.1 Infrastructure information

- Maximum charging voltage and current are specified in the chapter International Plugs.
- The device is designed for use with a selection of electrical outlets. These outlets must comply with the relevant national regulations (connection and installation standards), regardless of whether they are already existing or installed separately.
- It is highly recommended that the device is connected to an electrical outlet with a separate residual-current-operated circuit breaker. Connect no other circuits to this residual-current-operated circuit breaker.
- All electrical outlets must be installed, commissioned, and serviced by appropriately trained, qualified, and authorised electricians. These electricians must be knowledgeable of the relevant standards and bear full responsibility for compliance with current standards and installation regulations.

5.2 Grounding instructions

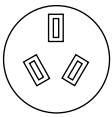
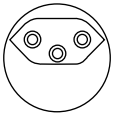
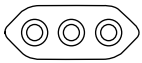
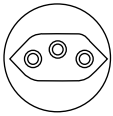
This device must be grounded. If it should malfunction or break down,grounding provides a path of least resistance for electric current to reduce the risk of electric shock, This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

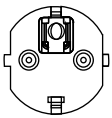
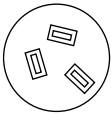
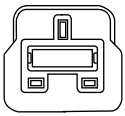
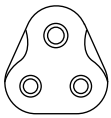
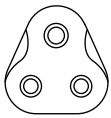
WARNING

Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do NOT modify the plug provided with the product, if it will not fit the outlet, have a proper outlet installed by a qualified electrician. ◂

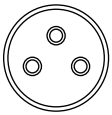
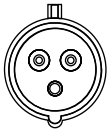
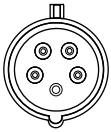
5.3 International Plugs

Interface & Mains plug

Plug type	Type K (AFSNIT 107-2-D1)	Type I (IRAM 2073)	Type J (SN 441011)	Type L (CEI 23-50)	Type N NBR 14136, 10 A)
Inter-face					
Mains plug					
Rated current	6 A	8 A	8 A	8 A	8 A

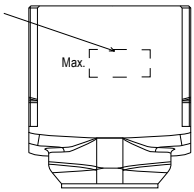
Plug type	Type E+F (CEE 7/7)	Type I (AS 3112)	Type G (BS 1363)	Type M (SANS 164-1)	Type M (IS 1293)
Inter-face					
Mains plug					
Rated current	8A / 10 A	10 A	10 A	10 A	10 A

EN

Plug type	Type O (TIS 166-2549)	CEE blue 16 A (16 A - 1-phase, 230 V)	NEMA 5-15	CEE red 16 A (16 A - 3-phase, 400 V)	CEE red 32 A (16 A - 3-phase, 400 V)
Inter-face					
Mains plug					
Rated current	10 A	10 A / 16 A	10 A	16 A	16 A

Mains plug cable can be changed to adapt the specific electrical environment.
Optional accessory: Please contact your dealer or the BMW Online-Shop for optional accessory.

Allowed maximum charging current can also be seen at specific part of quick change connect (see picture below). ◂



5.4 Wall mount

If you wish to use your MFC with sideways or upward-facing sockets, please use the optional genuine BMW MFC wall mount, available from your BMW dealer.

6 Technical data

Rating	1-phase: 16 A 220-240 V AC 3-phase: 3x16 A 400 V AC
Frequency	50-60 Hz Rating is adjusted based on actual usage in combination with different adapters.
IP protection class	IP67 – while plugged in correctly (see chapter 3 - operation), totally protected against dust. Protected against the effects of temporary water immersion between 15 cm and 1 m. Duration of test 30 minutes. The MFC is able to operate outdoors in the rain. Harmlessness on contact with MFC during charging/ standby, when covered with water/snow/ice
Flame retardant class	V1
Cable length	6 m

Environmental Specifications

Humidity	75% at 40°C Higher relative humidities are admitted at lower temperature.
Altitude	Max. 4000 m
Operating temperature	-40°C to +50°C
Storage temperature	-40°C to +70°C

Additional Information

Model reference	JETTY001

7 Disposal

After correctly decommissioning the device, please have it disposed of by the service department in compliance with current waste disposal regulations.
The electrical and electronic devices including accessories must be disposed of separately from general household waste. There are instructions on the product, in the instructions for use or on the packaging.
The materials can be recycled as shown by their labelling. You can make a significant contribution to protecting our environment by reusing, recycling the material or other forms of recycling of end-of-life devices.

RACCOLTA CARTA

Verifica le disposizioni
del tuo Comune.