BMW Motorcycle Charger

Safety guidelines

Please read this complete set of instructions before operating the charger. It contains important information on the correct use. For damage which results from the non-compliance of these operating instructions, the warranty is rendered invalid.

Warning: Explosive gases are emitted when batteries charge. Avoid flames or sparking. Disconnect the charger from the mains before you connect the battery. Battery acid is extremely caustic. Avoid any contact with skin or clothing. Immediately wash with soap and water in the case of unintentional contact.

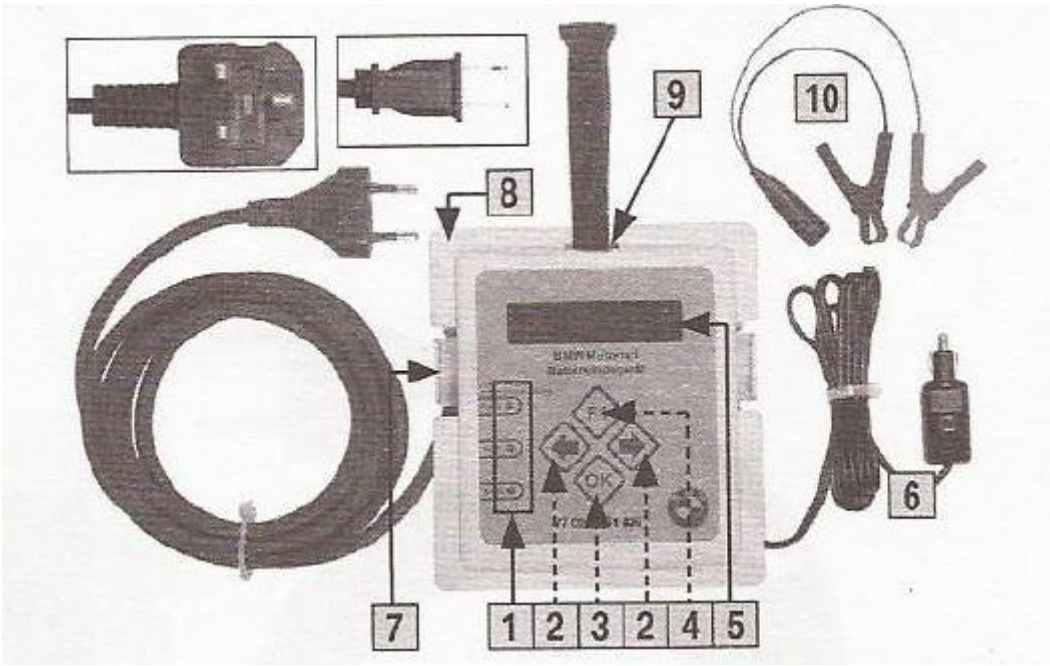
Warning: Never charge Li-ion or other battery technologies with this charger. This can cause serious damage to the device or start a fire. Only use for rechargeable lead batteries in wet, AGM, or gel technology. Never place the charger on the battery during the charging process.

Never place the charger under water, make sure that no liquids penetrate it.

Caution: With wet batteries, before connecting the charger, the acid level must be checked. If needed, top up lead acid batteries with distilled water: Maintenance-free batteries (gel or AGM) should not be topped off with distilled water. This is not permitted. Avoid short circuits to the battery poles. Do not place tools or metallic objects on the battery – this can lead to short circuits and fires. The device may only be repaired by technicians who are familiar with the relevant safety regulations and instructions. Do not load the electrical and charging cables through unnecessary pulling or jamming/clamping. The device may not be operated with a damaged connection cable. Do not operate the device in the proximity of easily flammable materials. The device heats up during operation. Do not place the charger on flammable or sensitive surfaces. There is a risk of fire or a risk of damaging surfaces, e.g. of seats or painted surfaces.

Caution: The charger cable for connection to the motorcycle may not be lengthened. Only use the charging adapter provided on the battery poles.

Caution: Do not expose the charger to excessive heat; avoid mechanical impact caused by dropping or falling. Avoid damage or use of force on the operating keys, e.g. with tools or objects.



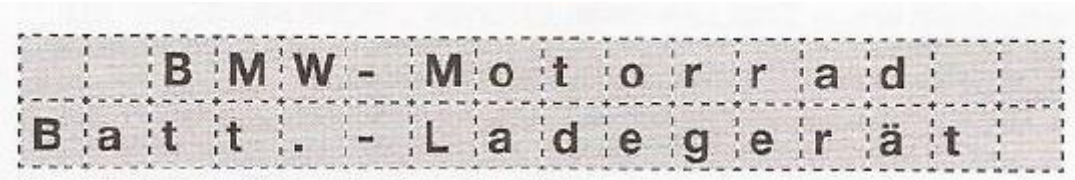
No	Control element	Function
1	LED displays, yellow, green, red	Steady yellow light = power indicator, blinking yellow = sleep mode, steady green light = battery charging, steady red light = error
2	Left and right control key	Input according to menu info
3	OK key	Confirm input, Exit menu
4	F1 key	Function key for calling up language menu
5	2-line display with 2 x 16 characters	Function and status display of device, not lighted in sleep mode
6	Charing cable	Battery charging cable
7	Cable bracket	Wind-up bracket for the cable
8	Mounting hole	3 keyhole mountings in the base plate for wall mounting of the charger
9	Mounting slots for mounting strip (Velcro)	Mounting slots for the enclosed Velcro strip. This allows the charger to be mounted at different locations, e.g. on the handlebar
10	Charging adapter	Adapter with charging clips for charging directly on the battery poles

Technical data:

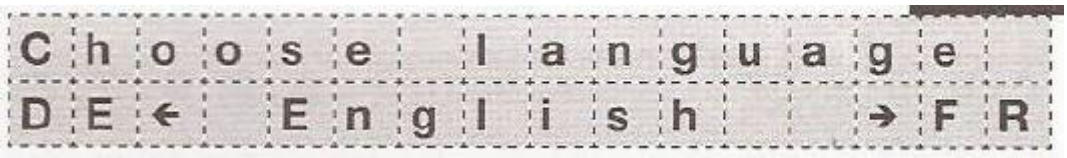
Mains voltage	100 - 240 V - 50/60 Hz
Charging current	max. 2.5 A
Charge-end voltage	14.4 V
Temperature category	ta 40B
Weight	approx. 800 g
Cable length	Power cable: 1.9 m, charging cable: 1.3 m
Charging characteristic	IU0U with charging cut-off and repeat cycles
Sleep mode	With a completely charged battery, the display is switched off to save energy. LED "Power" blinks.

Operation and display

The BMW motorcycle charger is a high quality, microprocessor-controlled charging and trickle charging device for 12V BMW motorcycle batteries. In this way, BMW motorcycle wet and maintenance-free lead acid batteries (gel or AGM) – with capacities between 6 – 25 Ah can be charged using the BMW on-board socket or with a suitable charging adapter directly to the battery poles. The charger is suitable for BMW motorcycles with CAN Bus technology, functions completely automatically and follows the charging characteristic stored in the microprocessor. The device can remain connected to the battery or the vehicle over longer time periods. Charging cycles are carried out; the battery is monitored and if necessary, recharged. The device is built into a stable plastic housing. On the front, there is a membrane keyboard for setting the device. The following display languages can be selected: - German – English – French – Spanish – Italian- Portuguese.



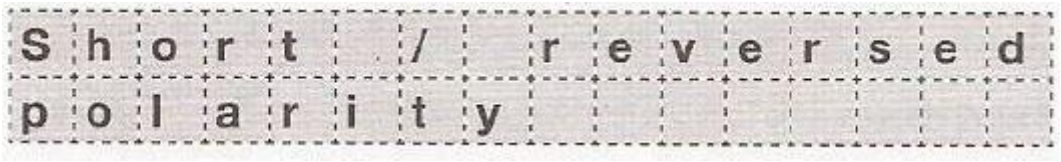
Connecting to the mains: If the charger is connected to the mains, the device identification appears and 3 LEDs light up for 2 seconds. The charger is now operational.



Set language: Press the F1 key for approx. 1 second. The language menu appears. In the centre of the display, the selected language is displayed. Move left and right to select language options. The chosen language must be confirmed with the OK key. Proceed the same way for the other available languages. Note: The language menu can only be called up as long as the device is not charging or not connected to the battery or vehicle. In charging mode, the menu is not available.

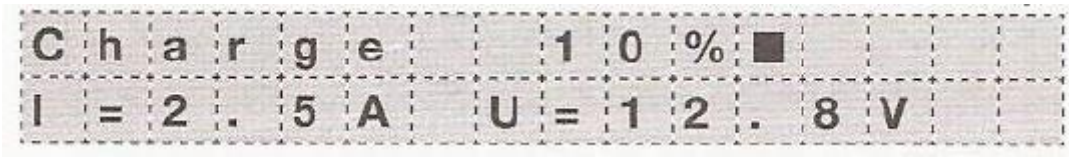
This display appears if the charger is not connected to the battery or the vehicle. Connect the charger directly to the on-board socket or to the poles of the battery taken from the vehicle using the adapter supplied. Red charging clip = plus pole, black charging clip = minus pole.

Note: If the display appears although the charger is connected to the on-board socket, it could be that the battery in the vehicle is completely discharged. Charging using the on-board socket is not possible. In this case, disconnect the battery from the vehicle and connect the charger directly to the battery poles.

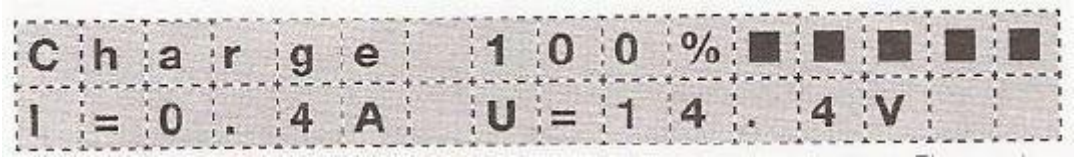


This display appears, if the disconnected charging clips are touching or the battery is connected with reverse polarity (plus and minus clips of the charger adapters are reversed). Remove the short circuit or connect the battery with the correct polarity.

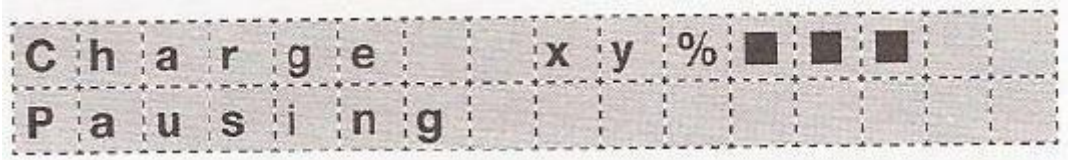
Note: This message is displayed with deep-discharged batteries or residual voltage.



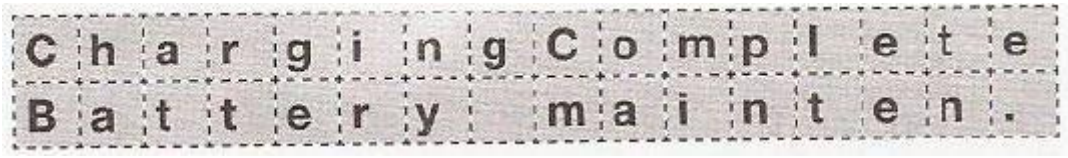
Charging process: If the battery can be charged, the charging starts. The device works completely automatically and charges the connected battery according to the charging characteristic. When the battery is fully charged, the device switches off. In the upper display line, the charging process is displayed using bars and in per cent. The charging parameters – the charging current and the charging voltage – are displayed in the lower line.



Charging progress: With increasing charge, the status display changes. The number of bars and the percent value increase and show the end of the charging process at 100 %. **The charging duration is dependent on the charging and aging condition as well as the battery size**.

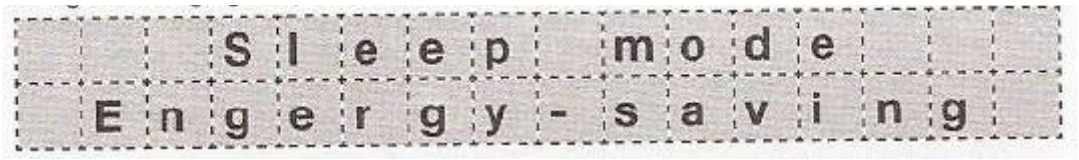


Charging pauses: If the charger is connected to the vehicle via the on-board socket, charging pauses are inserted which are caused by the vehicle's electronic system. The device continues to charge the battery after release from the vehicle electronic system automatically. Charging pauses can occur in various charging stages. xy = any % displayed in display screen.



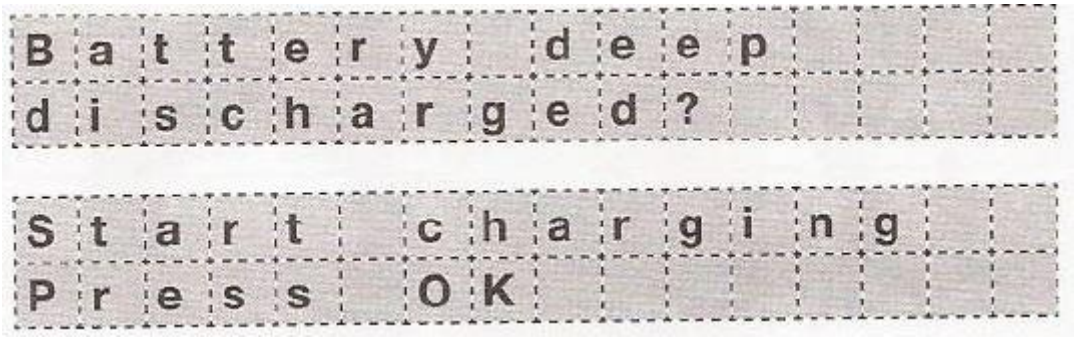
Battery charged: If the battery is fully charged, the device can be disconnected if necessary, or remain connected. The battery is monitored and if needed, recharged. An equalization charging (battery maintenance) is carried out.

Note: This charging step is only carried out with a directly connected battery, e.g. using the charging adapter provided.



Sleep mode: When the battery is fully charged, the charger switches to sleep mode to save energy. The LED "Power" blinks. The device can continue to remain connected to the battery. The battery is monitored and if needed, recharged. After 24 hours, the charging cycle starts again. You can wake up the device by pressing any key on the keypad. After approx. 10 seconds, it switches back into the sleep mode.

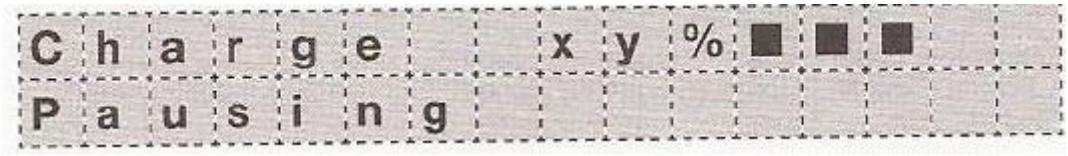
Charging error: If a battery cannot be charged, the device interrupts the charging; „Charging error" is displayed. The LED "Error" blinks. The battery could not be charged according to the charging characteristic programmed in the device. This does not necessarily mean that the device or battery is defective. Disconnect the charger from the mains and reconnect it. The charging process is restarted and carried out. If a repeated attempt does not solve the problem, the battery and, if applicable, the charger must be checked.



Note: Batteries with very low voltage (deep-discharged) cannot be charged using the on-board socket. They must be separated from the vehicle / on-board network and be charged via the battery poles using the charging adapter supplied. See comment above with “No battery”.

Note: Batteries which have been stored for a longer time period with very low voltage are very difficult to charge or cannot be charged at all or supply full power when fully charged. If a deep-discharged battery is connected directly to the battery poles, the charger identifies this as deep-discharged and shows “battery deep-discharged”? / Start charging. Press the “OK” key for at least one second. The charging process starts and the charging characteristic is carried out.

If error messages are sent, a renewed attempt at charging could lead to the desired results. Disconnect the device from the mains and restart it. If a renewed attempt does not solve the problem, the battery must be checked by an authorized BMW Motorrad dealer.



Deep-discharged batteries – „Pause“: If the charger is connected directly to the battery poles via the charging adapter and this display appears, the battery cannot be charged. Also see the Section “Problems”. Disconnect the device, if applicable, from the mains and restart it. If a renewed attempt does not solve the problem, the battery must be checked by an authorized BMW Motorrad dealer.

Problems and elimination of problems

With the BMW charger, you have purchased a product which is reliable and safe-to-operate. Nevertheless, problems or malfunctions can arise during operation.

Self-test / function check:

If the charger is connected to the mains, the display shows the device identification and goes to the charging readiness showing on the display: “No battery”. During the start, all 3 LEDs light up for 2 seconds. If the message “No battery” does not show or if the charger displays something else, have it checked by a BMW Motorrad dealer.

The keys do not react to input:

When operating the device, the keys must be pressed for longer. This mode was deliberately chosen to avoid pressing the keys through accidental contact.

The device gets hot during operation:

The bottom of the charger warms up noticeably during charging, the heat is given off via the housing. This is not a defect or malfunction. Observe the safety information on the placement of the device during charging mode. Do not place on flammable or sensitive surfaces.

The motorcycle does not start:

The device displays „Battery fully charged“ but the vehicle cannot be started. The charger is not a battery tester. Even when the display shows “Fully charged”, the battery can, in some cases, be defective.

The device shows „Charger error“:

The battery could not be loaded according to the charging characteristic programmed in the device. Restart the charging process, observe the battery. If it noticeably warms up after several hours of charging, stop the charging process and contact a dealership workshop.

LED error lights up:

If the charger is connected to a battery with voltage exceeding the permitted range, e.g. greater than 16V, it shows “no battery” in the display and the LED “error” lights up. The battery voltage is too high.

The device is connected to the mains and to a battery or vehicle but the display is not lighted:

The LED „Power“ blinks. The device is in „Energy-saving mode“. You can wake it up by pressing a key on the keypad, in the display the current charging process is displayed. The device can and should continue to be connected to the battery. Charging cycles are carried out, the battery is monitored and if needed, recharged. The charger can remain connected to the vehicle or the battery for months.

Back current:

If the charger is connected to the battery but not to the mains, a low current flows back from the battery into the charger. Disconnect the charger from the battery poles if it is not connected to the mains. Otherwise the battery can become completely discharged over months.

Environmental protection:

Please observe environmental protection. Despite sleep pauses and low energy consumption, the device represents an electrical consumer. Disconnect the device when not using it, both from the house current and from the vehicle. In this way, you help protect the environment by using less energy consumption.

Maintenance and cleaning

The charger is maintenance-free except for the occasional cleaning. To clean the device, disconnect it from the battery and mains, then take a clean, lint-free, antistatic and dry cloth without any abrasive, chemical or solvent-containing agents.

Disposal of the charger

Every device reaches the end of its life cycle at some point. If this is the case, please dispose of the device which is no longer useable according to legal regulations at the community collection locations or recycling companies. Electronic waste is hazardous waste and may not be disposed of in the household garbage.