

Battery Charger (SM-BCE60)



User's manuals in other languages are available at :
<http://si.shimano.com>

IMPORTANT NOTICE

- Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (<http://si.shimano.com>).
- Do not disassemble or alter this product.

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

Be sure to observe the following in order to avoid burns or other injury from fluid leakages, overheating, fire or explosions.

DANGER

- Do not get the charger wet or use it while it is wet, and do not touch or hold it with wet hands. If this is not observed, problems with operation or electric shocks may occur.
- Do not cover the charger with a cloth or similar while it is in use. If this is not observed, heat may build up and the case may become deformed, or fire or overheating may occur.
- Do not disassemble or modify the charger. If this is not observed, electric shocks or injury may occur.
- Use the charger at the specified power supply voltage only. If a power supply voltage other than that specified is used, fire, explosions, smoke, overheating, electric shocks or burns may occur.
- Use the battery and charger combination specified by the company for charging and follow the charging conditions specified by the company. Not doing so may cause overheating, bursting, or ignition of the battery.

WARNING

- Be sure to hold the power cable by the power plug when connecting and disconnecting the power plug from the electrical outlet. If you do not hold the power cable by the power plug, fire or electric shocks may occur. If the following symptoms are observed, stop using the device and contact a dealer. A fire or electric shock may be caused.
 - * If heat or acrid-smelling smoke is coming out from the power plug.
 - * There may be a bad connection inside the power plug.
- Do not touch metallic parts of the charger or the AC adapter if there is a lightning storm. If lightning strikes, electric shocks may occur.
- Do not overload the electrical outlet with appliances beyond its rated capacity, and use only a 100 – 240 V AC electrical outlet. If the electrical outlet is overloaded by connecting too many appliances using adapters, overheating resulting in fire may occur.
- Do not damage the power cord or power plug. (Do not damage, process, forcibly bend, twist or pull them, bring them near hot objects, place heavy objects on them or bundle them tightly together.) If they are used while damaged, fire, electric shocks or short-circuits may occur.
- Do not use the charger with commercially-available electrical transformers designed for overseas use, as they may damage the charger.
- Always be sure to insert the power plug as far as it will go. If this is not observed, fire may occur.
- Do not insert or remove the plug while it is wet. If this is not observed, electric shocks may result. If there is water leaking out of the plug, dry it thoroughly before inserting it.
- Do not recharge the battery in places with high humidity or outdoors. Doing so may result in electric shock.

- If the battery does not become fully charged after 6 hours of charging, immediately unplug the battery from the outlet to stop charging, and contact the place of purchase. Not doing so may cause overheating, bursting, or ignition of the battery.
- After reading the user's manual carefully, keep it in a safe place for later reference.

CAUTION

- Disconnect the power plug from the electrical outlet before cleaning the charger.
- During charging, do not let the battery charger touch your skin in one spot for an extended period. Failure to do so may result in a low-temperature burn as the temperature of the battery charger can rise to 40 to 70 °C during charging.
- Examine the battery charger regularly for damage, especially the cord, plug and enclosure. If the battery charger is damaged, it must not be used until it has been repaired.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Note

- The battery can be charged within a temperature range of 0 to 40 °C. The charger does not work in temperatures outside this range and displays an error. (The LED blinks.)
- Do not use outdoors or in environments with high humidity.
- Charge the battery in indoor places to avoid exposure to rain or wind.
- Do not place the battery charger on dusty floors when using it.
- Place the battery charger on a stable surface such as a table when using it.
- Do not place any objects on top of the battery charger or its cables. Do not place a cover on it either.
- Do not wrap the cables into bundles.
- Do not hold the battery charger by the cables when carrying it.
- Do not apply excessive tension to the cables.
- Do not wash the battery charger or wipe it using detergents.
- Do not allow children to play near this instrument.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Charging can be carried out at any time regardless of the amount of charge remaining, but you should fully charge the battery at the following times.

- The battery is not fully charged at the time of purchase. Before riding, be sure to charge the battery until it is fully charged.
- If you will not use the bicycle for an extended period of time, charge the battery before storing the bicycle.

If the battery has become fully spent, charge it as soon as possible. If you leave the battery without charging it, it will cause the battery to deteriorate and become unusable.

- If you will not be riding the bicycle for a long period, recharge the battery periodically. In addition, take care not to let the battery become fully spent.
- Avoid using the battery under conditions which are outside the normal operating temperature range, otherwise the battery may not operate or its performance may deteriorate.
- If the temperature of the battery is high, charging will take a lot of time.

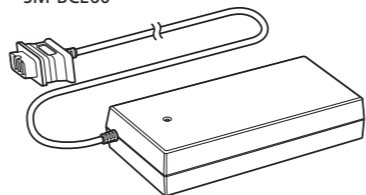
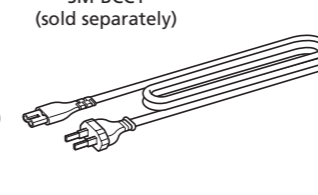
Read this user's manual together with the user's manual for the SHIMANO STePS (UM-70H0A).

■ Main specifications

Input	100 -- 240 V AC, 1.5 -- 0.65 A, 50/60 Hz
Output	42 V DC, 3.1 A

Names of parts

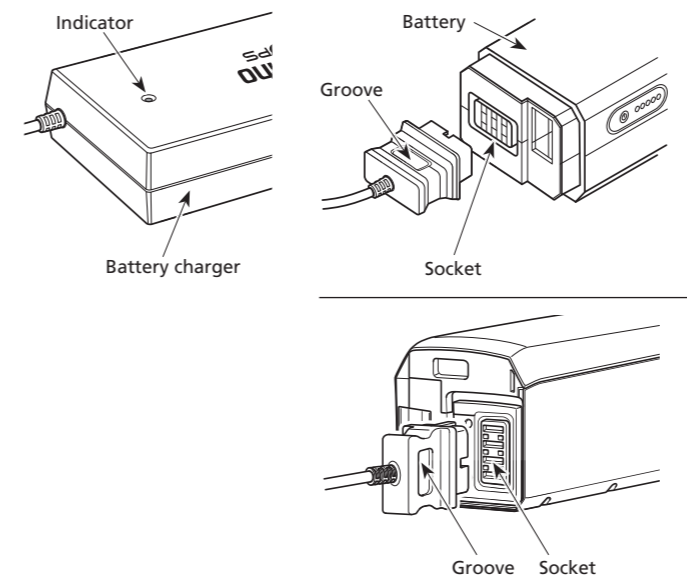
SM-BCE60

SM-BCC1
(sold separately)

Charging method

When charging the battery, orient the battery and battery charger as shown in the illustration.

* The orientation of the battery socket varies depending on the specifications.



1. Insert the AC power plug of the battery charger into an electrical outlet.
2. Insert the charging plug of the battery charger into the socket of the battery.
 - * Check to see that the socket for the charging connector is clean before inserting it.
3. The indicator of the battery charger will show the charging status.
 - * Charging will finish after approximately 4 hours, even if the amount of battery charge remaining is 0%.

Charging indicator

Lights up	○	Charging Within 1 hour after the completion of charging
Flashing	⦿	Charge error
Turned off	●	Battery disconnected Error 1 hour or more after the completion of charging

Troubleshooting

Symptom	Cause/possibility	Remedy
The battery cannot be recharged.	Is the power plug of the charger securely inserted into the electrical outlet?	Disconnect and then reconnect the power plug of the charger, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
	Is the charging plug of the charger securely inserted into the battery?	Disconnect and then reconnect the charging plug of the charger, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
	Are the connection terminals of the charger or the battery dirty?	Wipe the connection terminals with a dry cloth to clean them, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
The battery does not start recharging when the charger is connected.	The battery may be at the end of its service life.	Replace the battery with a new one.
The battery and charger are becoming hot.	The temperature of the battery or charger may exceed the operating temperature range.	Stop recharging, wait for a while and then recharge again. If the battery is too hot to touch, it may indicate a problem with the battery, contact the place of purchase.
The charger is warm.	If the charger is being used continuously to charge batteries, it may become warm.	Wait a while before using the charger again.
The LED on the charger does not illuminate.	Is the charging plug of the charger securely inserted into the battery?	Check the connection for any foreign objects before reinserting the charging connector. If there is no change, contact the place of purchase.
	Is the battery fully charged?	If the battery is fully charged, the LED on the battery charger turns off, but this is not a malfunction. Disconnect and then reconnect the power plug of the charger, and then repeat the recharging operation. If the LED on the charger still does not illuminate, contact the place of purchase.
The battery cannot be removed.		Contact the place of purchase.
The battery cannot be inserted.		Contact the place of purchase.
An abnormal odor can be detected.		Stop using the battery immediately and contact the place of purchase.
Smoke is coming out from the battery.		Stop using the battery immediately and contact the place of purchase.

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Please note: specifications are subject to change for improvement without notice. (English)
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