

6v/12v/24v 10 Amp Heavy Duty Intelligent Fully Automatic Battery Charger

IP65 Waterproof

Suitable for SLA, Gel, Maintenance Free, AGM, Deep Cycle batteries



SWIBC10



Streetwize Accessories

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READ THESE INSTRUCTIONS BEFORE USE
AND RETAIN FOR FUTURE REFERENCE!

Disposal

Packaging

The packaging can be recycled. Put the packaging materials to appropriate collection containers only.

Device

After the device has reached the end of its service life, follow the legal regulations concerning the disposal of electrical devices. Take the device to your retailer or to an appropriate public collection point, where it will be recycled

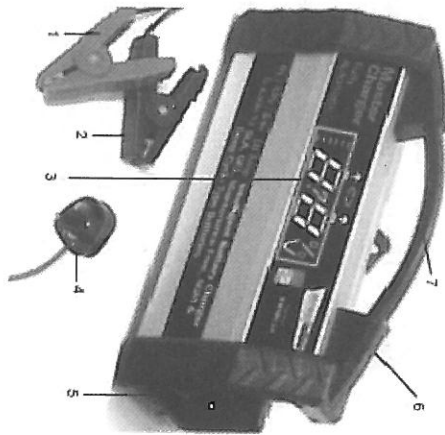
Product Specifications

Model Number:	SC10000
Input Voltage:	200 ~ 240 VAC 50Hz
Output Voltage:	6V / 12V / 24V dc automatic
Output Current:	10A dc max
Efficiency:	>80%
Type of Batteries:	6 / 12 / 24 Volt lead-acid batteries (SLA, Gel, AGM, Deep Cycle batteries)
Battery Capacity:	20 ~ 225Ah
Ambient Temperature:	-20°C - 50°C
IP Class:	IP65 Waterproof
Dimensions:	270 x 190 x 150 mm
Weight:	2.16kg

IMPORTANT ADDITIONAL INFORMATION: This Battery Charger is NOT intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been given instruction concerning use of the Battery Charger by a person responsible for their safety.

MAIN PART LIST

- 1 Positive Clamp (Red)
- 2 Negative Clamp (Black)
- 3 Control Panel with Display
- 4 230VAC Power Plug
- 5 Clamp Compartment
- 6 Cable Compartment
- 7 Carrying Handle



CONTROL PANEL

- A Power Supply (Force Start/Stop button)
- B Charge Status and Mode Indicator
- C Charging Bar
- D Fault Indicator

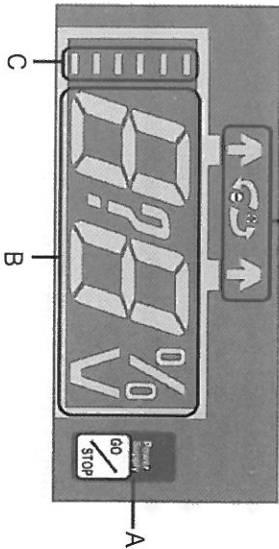


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Safety Instructions

SAVE THESE INSTRUCTIONS

This manual contains important safety instructions for this battery charger.

Read all instructions and cautionary markings on battery charger, battery, vehicle and any equipment before using battery charger.
Always hand out these instructions to third person together with the battery charger.



The manufacturer is not responsible for damages caused by:

- Improper connection and/or operation.
- External forces, damages of the device and/or damages of the parts of the device through mechanical impact or overloading.
- Any type of alterations of the device.
- Using the device for purposes which have not been outlined in the instruction manual.
- Consequential damage through unconventional and/or improper use, and/or defective batteries.
- Humidity and/or insufficient ventilation.
- Unauthorized opening of the device. This leads to terminating the warranty.

Safety rules for battery chargers

- Keep the device away from children. Children do not understand or recognize possible risks of handling electrical devices. Children should be supervised to ensure that they do not play with the charger.
- The device 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 device by a person responsible for their safety.
- Make sure the device is always placed in a secure location. Do not expose the device to rain or wet conditions. Avoid spilling or dripping water and other liquids over it. Water entering electric devices will increase the risk of electric shock.
- Ensure that all plugs and supply cables are free from moisture. Never connect the device to the AC wall outlet or the battery with moist or wet hands.

Cleaning, Care and Maintenance

A minimal amount of care can keep your battery charger working properly for years.

- Clean the clamps **1** and **2** each time you are finished charging. Wipe off any battery fluid that may have come in contact with the clamps to prevent corrosion.
- Coil the input and output cords neatly when storing the charger. This will help prevent accidental damage to the cords and charger.
- Occasional cleaning of the case of the charger with a soft cloth will keep the finish shiny and help prevent corrosion.
- Store the battery charger in a clean and dry location.

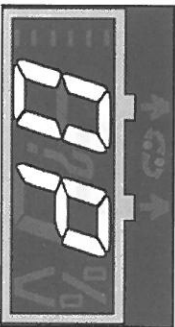
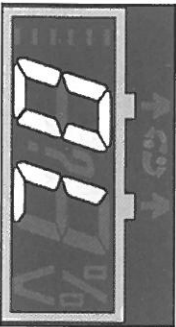
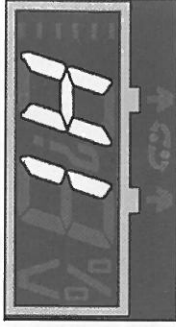
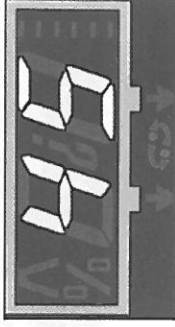
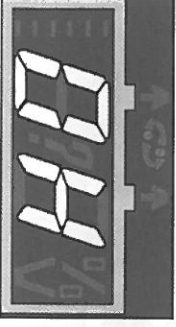
Trouble Shooting

Trouble often can be corrected by the user. Please read this chart for possible solutions to common problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The battery is connected and the charger is on, but it isn't charging.	The battery is deeply discharged	Press POWER SUPPLY button to force start the charging process.
Indicator lights are lit in an erratic manner not explained in the manual.	The charger may be defective.	Unplug the unit and plug it in again. If problem continue, return to place of purchase for replacement.
The FULL CHARGE display turns on a few minutes after starting the charging process.	The battery may be fully charged or recently charged, leaving the battery voltage high enough to appear to be fully charged.	If the battery is in a vehicle, turn the headlights on for a few minutes to reduce the battery voltage and try charging again.
The charger was unplugged from the wall but the display is still on.	The battery is supplying the power to the display.	Disconnect the battery.

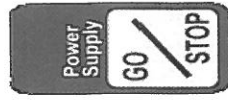
Other fault display

The battery charger as also programmed with diagnostic feature and will be able to show some of the battery fault

	Battery fault with open circuit or when the battery is removed during charging process.
	Battery fault with high resistant. An old battery that is not accepting charges will have this problem.
	Battery fault with over voltage of 29.4V or when the battery is removed during charging process
	Battery fault with short circuit.
	When the unit is overheat (>85.0°C). Unplug the AC power, let the charger to cool down before restart charging process.

- Do not touch the battery poles, the battery clamps or the ring connectors when the device is connected to the AC wall outlet.
- Remove the cable of the device from the battery before attempting to drive your vehicle.
- Always disconnect the device from AC wall outlet when you are not using it.
- Always disconnect the device by pulling the power plug, but never by disconnecting one of the connector cables.
- If cables are to be routed through sharp-edged walls, e.g. metal walls, use empty tubes or cable ducts to avoid damaging the cables. Route electrical cables so that it is not possible to trip over them and to prevent them being damaged.
- Never place the device above or close to the battery to be charged, gases from the battery will corrode and damage the charger. Locate the charger as far away from the battery as the DC cable permits.
- Do not cover the device while charging.
- Never use the cable for carrying or pulling the device. Damaged cables increase the risk of electric shock.
- Only operate the device when all cables and housing are free of damage.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never operate the device if it has been dropped or otherwise damaged. Take it to a qualified electrician for inspection and repair.
- All maintenance work has to be done by qualified electricians.
- Do not disassemble the device. Incorrect reassemble may result in electric shock or fire.
- Never create a short circuit or bridge on the inputs and outputs of the device using foreign objects. Only use the supplied connectors to connect the device to a battery.
- If an extension cord is used, its capacity needs to be suitable for the power consumed by the appliance.
- Check the device input voltage (220~240V AC) and make sure it matches with the mains voltage. Otherwise the function of the device may be affected.
- Always ensure the device is not connected to the AC wall outlet when connecting it to a battery and before separating it from the battery.

- Always connect first the positive charging clamp (red) to the positive terminal pole of the battery (not connected to the car chassis, marked P or +).
- Then connect the negative charging clamp (black) to the car chassis, away from the battery and away from the fuel line. Then the charger can be connected to a suitable mains outlet.
- After charging, first disconnect the battery charger from the mains outlet. Then remove the chassis connection and the battery connection, in this order.
- Do not face the battery when connecting the charger to the mains outlet.
- **Warning!** Never try to recharge non-rechargeable, damaged or frozen batteries.
- This charger is only suitable for the specified batteries (maintenance free, sealed, lead-acid batteries (SLA) or gel batteries) and must not be used to recharge non-rechargeable, NiCd or any other type of battery. Do not use it for any other purpose.
- Do not use battery charger for charging dry-cell batteries. They may burst and cause injury to persons and damage to property.
- Do not use the device to supply power to a low voltage electrical system.
- Make sure to read and understand the manual and all safety instructions provided with the battery to be recharged or the vehicle where the battery is installed.
- Avoid any contact with battery acid since it is corrosive. If your face comes into contact with battery acid, clean it thoroughly under running water and contact your doctor. Should the battery acid have contact with your eyes, rinse them for at least 0 minutes with running water and contact your doctor.
- Always pay attention to correct polarity when connecting the device to a battery.
- This battery charger is not designed as a caravan power supply.
- This battery charger is not designed for installation in the vehicle as a fixture.
- The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.



Rescuing deeply discharged batteries

The charger automatically detects the voltage of the battery after connection and before starting the charging process.

If voltage is below 3.5V, the battery is considered as deeply discharged,

And the battery will not start the charging process due to its internal safety circuit. In this case user can try to force start the charging process by pressing the POWER SUPPLY button.

If voltage is >3.5V, the battery charger will initiate recovery charge during the Battery Detection stage. If the voltage of the battery reaches to a predetermine level in a short while, the charging process will continue.

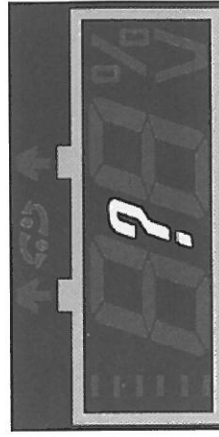


fig.10

In both case if the voltage of the battery cannot reaches to a predetermine level in a short while, the charger will stop and consider there is a fault with the battery with below battery fault display(fig.10).

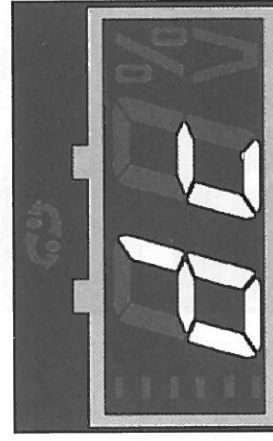


fig.11

Discharging a battery

If the battery has been fully charged and is recently charged, it is not recommended to recharge, until the battery has been discharged or used. Therefore the battery charger has also been designed to have this protection with "dc" indication(fig.11):

The charger will then show the charging percentage of the battery(fig.6).

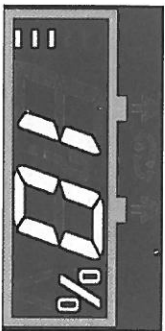


fig.6

Slow Charge

Once the battery is getting to 90% full, the battery charger will go into the SLOW CHARGE process with a lower current to fill up the remaining capacity of the battery.

This will be indicated with "SL" on the display of the control panel(fig.7), together with the charging bar flashing up and down.

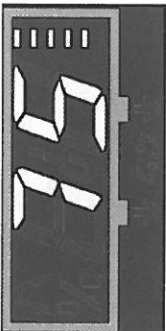


fig.7

Float Charge

When the battery almost full, the charger will adjust the output voltage and current to optimize the charging process.

During this stage the charger will show "FL" on the display(fig.8). The charging bar will also full by now.

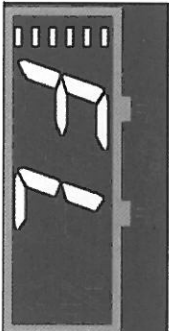


fig.8

Full Charge

The battery is now 100% charged and the process is now stopped and ready for disconnecting the battery from the charger(fig.9).

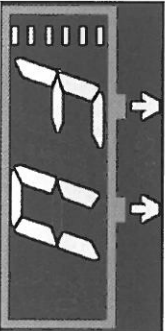


fig.9



Warning! risk of explosion!

When charging, bubbles may occur caused by release of gas. This gas is flammable and explosive!

- Never charge the battery near open flames or where sparks may occur.
- Always ensure sufficient ventilation.
- Only connect and disconnect the battery connector cables when the charger is disconnected from the AC wall outlet.

In The Package

- 1 x SC10000 battery charger
- 1 x Instruction Manual

Intended Use

The battery charger is intended to charge, trickle charge, maintain and rescue 6V, 12V and 24V DC batteries (only rechargeable, maintenance free, sealed, lead-acid batteries (SLA) especially as they are installed in cars, boats, trucks and other vehicles.

This includes various types of lead acid batteries such as:

- WET/flooded (liquid electrolyte) batteries,
- GEL (gelatine type electrolyte) batteries,
- AGM (absorbed glass mat) batteries,
- MF (maintenance free) batteries and
- VRLA (valve regulated lead acid) batteries.

The capacity may range from

6V	1.2Ah to 12Ah
12V	1.2Ah to 180Ah
24V	20Ah to 100Ah

The battery charger can be directly connected to the battery via the clamps.

The battery charger is not intended to charge any other battery type than those mentioned above.

Before First Use

Remove all packaging materials and check the scope of delivery for completeness(IN THE PACKAGE).

Operation

Before charging a battery

- If the battery needs to be removed from the vehicle before charging, always remove the grounded terminal from the battery first, also ensure that all accessories in the vehicle are turned off to prevent arcing.
- Ensure sufficient ventilation to allow dispersal of toxic fumes or gases.
- Ensure the battery terminals are clean. If the battery has a removable vent cap, refill each battery cell with distilled water to the level recommended by the battery manufacturer. Do not overfill.
- If the battery does not have caps, refer to the manufacturer's instructions regarding charging and charging rates.

Connecting the charger to a battery



Warning! Risk of electric shock!

Always ensure the charger is not connected to the **230V AC** mains outlet when connecting it to a battery.

- Be sure area around battery is well ventilated in charging process.
- Connect the positive (red) charging clamp **1** to the positive terminal pole of the battery (marked P or +).
- Connect the negative (black) charging clamp **2** to the negative terminal pole of the battery (marked N or -).
- Ensure that both DC clamps are making good contact with the respective terminal poles.
- **Plug the 230 V AC plug 4** into a suitable AC wall outlet.



Warning!

Always ensure to read and understand the manual and all safety instructions of your battery/vehicle before using the battery charger.

Reverse Polarity Connection

In case of wrong polarity connection, the power supply to the battery will be cut off and control panel display will show the warning in fig. 1:

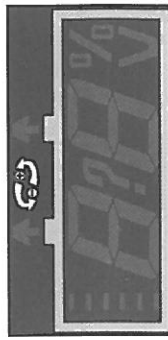


fig.1

Starting the process

Connect the clamps **1** and **2** to the battery with correct polarity. Plug the 230 V AC plug **4** into a suitable AC wall outlet. The control display will flashes a few times(fig.2).

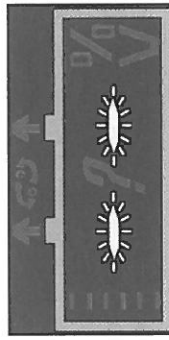


fig.2

Battery detection

Now the battery charger will start to detect the voltage of the battery. This may take a few minutes for the process to complete. During the process, the LEDS will turn in cycles (fig.3).

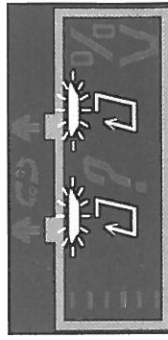
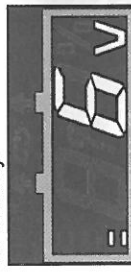


fig.3

Once the battery size has been detected, the display will show the battery voltage type(fig.4). The charging indicator will also indicate the charging in progress.

6V battery:



12V battery:



24V battery:



fig.4

Charging in progress

After the confirmation of voltage of the battery, the charger will now start providing charge with full power to the battery. This display will be show "CH" for a few seconds(fig.5)

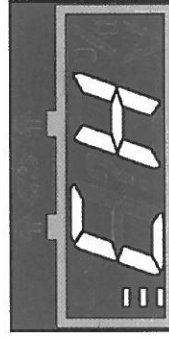


fig.5