









SC-01082 Battery Charger

Symbols

The following show the symbols used for the charger and battery. Be sure that you understand their meaning before use.

	o Ready to Charge
	o Charging
	o Charging Complete
	o Delay charge (Cooling)
	o Defective Battery
	o Conditioning
	o Cooling Abnormally
	o Do not short batteries

Specifications:

Input	A.C. 120 V 50 - 60 HZ
Output	D.C. 7.2 V - 18 V
Weight	1.7 kg (3.7 lbs)

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

1. **SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for battery charger.
2. Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
3. CAUTION - To reduce risk of injury, charge only Sceptor Industries rechargeable batteries. Other types of batteries may burst causing personal injury and damage.
4. Non-rechargeable batteries cannot be charged with this battery charger.
5. Use a power source with the voltage specified on the nameplate of the charger.
6. Do not charge the battery cartridge in presence of flammable liquids or gases.
7. Do not expose charger to rain or snow.
8. Never carry charger by cord or yank it to disconnect from receptacle.

9. After charging or before attempting any maintenance or cleaning, unplug the charger from the power source. Pull by plug rather than cord whenever disconnecting charger.
10. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
11. Do not operate charger with damaged cord or plug - replace them immediately.
12. Do not operate or disassemble charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman. Incorrect use or reassembly may result in a risk of electric shock or fire.
13. The battery charger is not intended for use by young children or infirm persons without supervision.
14. Young children should be supervised to ensure that they do not play with the battery charger.
15. Do not charge battery cartridge when temperature is BELOW 10°C (50°F) or ABOVE 40°C (104°F).
16. Do not attempt to use a step-up transformer, an engine generator or DC power receptacle.
17. Do not allow anything to cover or clog the charger vents.

Charging

1. Plug the battery charger into the proper AC voltage source. Two charging lights will flash in green color repeatedly.
2. Insert the battery cartridge into charger until it stops adjusting to the guide of charger. Terminal cover of charger can be opened with inserting and closed with pulling out the battery cartridge.
3. When the battery cartridge is inserted, the charging light color will change from green to red and charging will begin. The charging light will keep lighting up lit steadily during charging.
4. One red charging light indicates charged condition in 0 -80% and two red ones indicates 80- 100%.
5. With finish of charge, the charging lights will change from two red ones to two green ones.
6. If you leave the battery cartridge in the charger after the charging cycle is complete, the charger will switch into its "trickle charge (maintenance charge)" mode which will last approximately 24 hours.
7. After charging, unplug the charger from the power source.

NOTE:

- The battery charger is for charging a Sceptor Industries battery cartridge. Never use it for other purposes or for other batteries.
- When you charge a battery cartridge which is new or has not been used for a long period of time, it may not accept a full charge until after discharging it completely and recharging a couple of times.
- If you charge a battery cartridge from a just-operated tool or battery cartridge which has been left in a location exposed to direct sunlight for a long time, the charging light may flash in red color. If this occurs, wait for a while.
- Charging will begin after the battery cartridge is cooled by the cooling fan installed in the charger. When the temperature on battery is more than approx. 70°C, two charging lights may flash in red color, and when approx 50°C-70°C, one charging light in red color.
- If the charging light flashes alternately in green and red color, charging is not possible. The terminals on the charger or battery cartridge are clogged with dust or the battery cartridge is worn out or damaged.

Cooling system

- This charger is equipped with cooling fan for heated battery in order to enable the battery to prove its own performance. Sound of cooling air comes out during cooling, which means no trouble on the charger.
- Yellow light will flash for warning in the following cases.
 - Trouble on cooling fan
 - Incomplete cool down of battery, such as, being clogged with dust

The battery can be charged in spite of the yellow warning light. But the charging time will be longer than usual in this case.

Check the sound of cooling fan, vent on the charger and battery, which can be sometime clogged with dust.

- The cooling system is in order although no sound of cooling fan comes out, if the yellow warning light will not flash.
- Always keep clean the vent on charger and battery for cooling.
- The products should be sent to repair or maintenance, if the yellow warning light will frequently flash.

Conditioning charge

Conditioning charge can extend the life of battery by automatically searching the optimum charging condition for the batteries in every situation.

The battery employed in the following conditions repeatedly requires "conditioning charge" to prevent fast wear out. In that case, yellow light lights up.

1. Recharge of battery with its high temperature
2. Recharge of battery with its low temperature
3. Recharge of full charged battery
4. Over-discharge of battery (continue to discharge battery in spite of power down.)

The charging time of such battery IS longer than usual.

Trickle charge (Maintenance charge)

If you leave the battery cartridge in the charger to prevent spontaneous discharging after full charge, the charger will switch into its "trickle charge (maintenance charge)" mode and keep the battery cartridge fresh and fully charged.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Sceptor Industries, Inc.

Refer to the table for the charging time below.

Voltage	Capacity (Ah)	Number of Cells	Charging Time (min.)
24 V	3.3	20	60