





OPERATION MANUAL ENGLISH



CE

1.Silent Charger

The Silent Charger(referred to as the SC) is a state of the art microprocessor based charger/discharger system for rechargeable batteries for R/C use. With the technology developed by our team of R&D, factory team drivers and world champions, Muchmore introduces the next generation of charger for all R/C drivers. The SC is switching type and can fully charge Ni-MH and Ni-Cd 1 to 14 cells at a digitally presettable amperage up to a maximum 6.0 amps using peak detection and temperature limit methods. The SC can charge Litheum battery up to 5 cells. The following features give the SC superior benefits to the other chargers:

Orange back lit LCD with 16x2 characters
Multi protection system
Minimized setup procedure
Automatic saved charge-discharge profile
Capability of charging high voltage batteries by new switching type charge
Temperature probe(Thermo sensor)

MWARNING

To reduce the risk of injury, use only rechargeable Ni-CD or Ni-MH or Litheum/Lithium-Ion, Litheum/Lithium Polymer batteries with the SC. Do not leave the SC unattended. The remote possibility of a failure could cause an extreme overcharge. This could cause the battery to rupture. Always make sure all the batteries in the pack are in the same state of discharge before charging a pack. Otherwise, any cells that are partially charged before charging will get extremely hot and may be damaged or vent battery acids. To prevent this, make sure the temperature probe(thermo sensor) from the SC is always attached to the battery's surface. Check your battery pack occasionally for overheating. If cells are too hot to touch or swollen, there is something wrong and the pack must be disconnected from the charger immediately. Muchmore Racing(or their associated distributors) shall not be liable for any property damage or personal injury which may result from the failure to follow these instructions or other improper use of this product. Avoid any contact of your SC with water or other liquids. Never charge any Litheum/Lithium-Ion/Lithium Polymer battery unattended. Please refer to the cell manufacturers instructions for charging information. Do not connect the SC's temp probe to the Cell Master charger or any other products. Never operate on carpets, cloths, pit towel or other materials. Never cover the cooling fans or holes on the SC. Disconnect the SC from power supply when not in use. Only charge serially switched battery packs containing 1~14cells of NiMH or Ni-Cd, 1~5cells of Litheum/Lithium. Never charge parallel switched cells. Never connect the SC directly to an AC(110/230V) power source. For best performance, we recommend the Power Master 2(24A power supply #MM-CTXP3) or Power master mini(#MM-CTXPM).

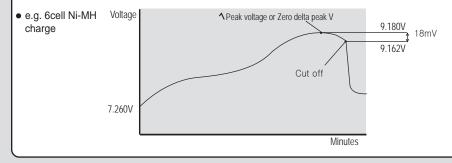
New charger may produce a slight odor/odour in the first few hours of service due to materials curing inside the device-this is normal.

TECHNICAL DATA

Dimensions	124x114x47mm
Weight	
	1~14cells (1.2~16.8V)
Number of cells(Li-Po)	.1~5cells (3.7/7.4/11.1/14.8/18.5V)
	0.1~ 6A
Max discharge current	0.1~ 6A
Dicharge cuttoff voltage	Automatically selected
Charging mode	Ni-MH, Ni-Cd, Li-Po
	Ni-MH, Ni-Cd, Li-Po
Trickle charge rate(after charge)	0.1A(Ni-Cd mode)
Voltage threshold/Delta peak	.3mV/cell(Ni-MH), 6mV/cell(Ni-Cd)
Max charge watts	
Max dishcharge watts	
Temperature probe	Magnetic sensor(35~65deg.C)
	4
	IC controlled single fan

2.What's Delta peak?

• "Delta peak" is short hand for "The peak charge is detected by measuring the Delta Voltage". "Delta" is a mathematical term which means "The change in". So what is delta peak charging? As Ni-MH or Ni-Cd battery is charged, its voltage increases. This increase in voltage is technically called a positive delta V (or voltage). Positive because the voltage is rising. It is a basic characteristic of these cells that when they are fully charged the voltage levels off and even goes down very slightly. These conditions are known as Zero delta V and negative delta V. The SC looks for this change and terminates the charge when it sees it.



The SC determines the number of cells and the delta peak V cut off value automatically according to the battery's output voltage. The delta peak V value will be set to 3mV per cell in Charge Ni-MH mode, 6mV in Ni-Cd.

3.Li-Po charge/dishcarge data

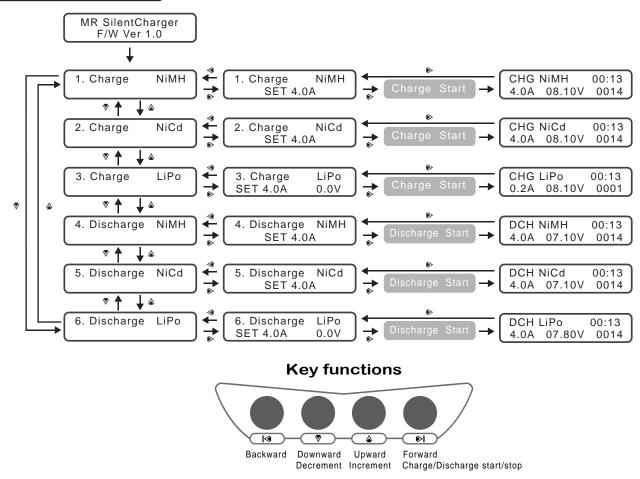
Charge cut off voltage	Discharge cut off voltage
4.2V	2.8V
8.4V	5.6V
12.6V	8.4V
16.8V	11.2V
21V	14V
	4.2V 8.4V 12.6V 16.8V

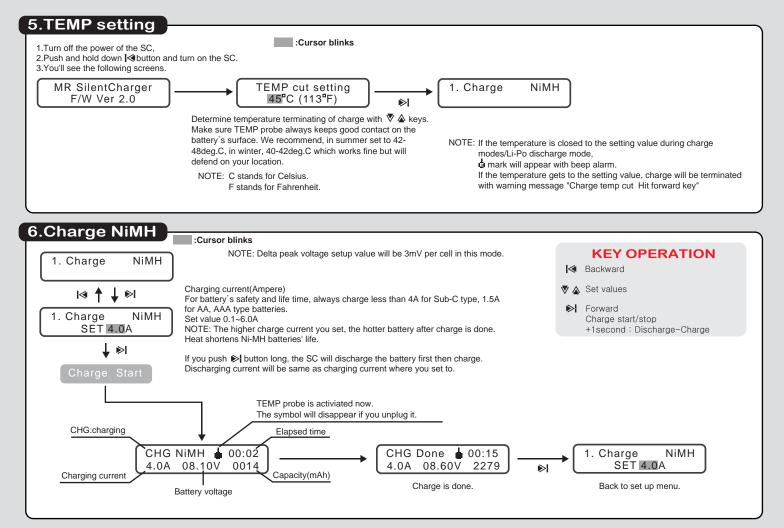
4. State indicator

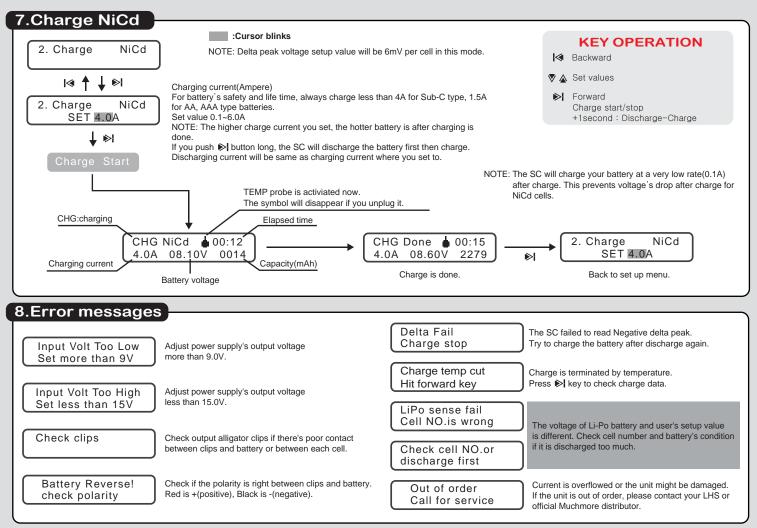
A laser state indicator LED is equiped on the SC which allows you to monitor the SC's state.

On : Charging Blinking once a second :Discharging

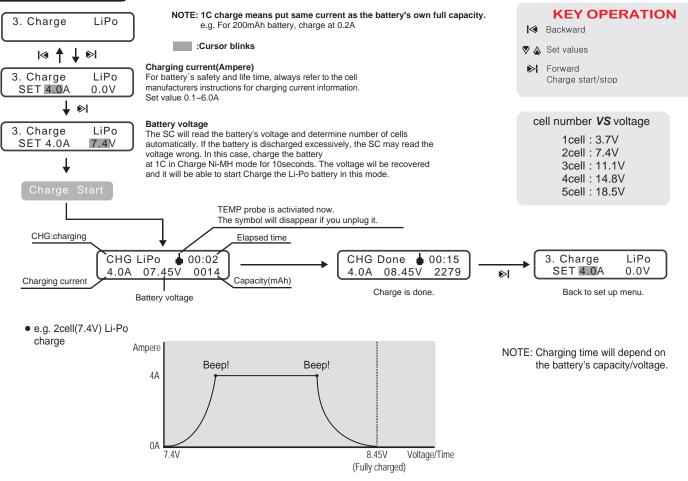
4. Program structure

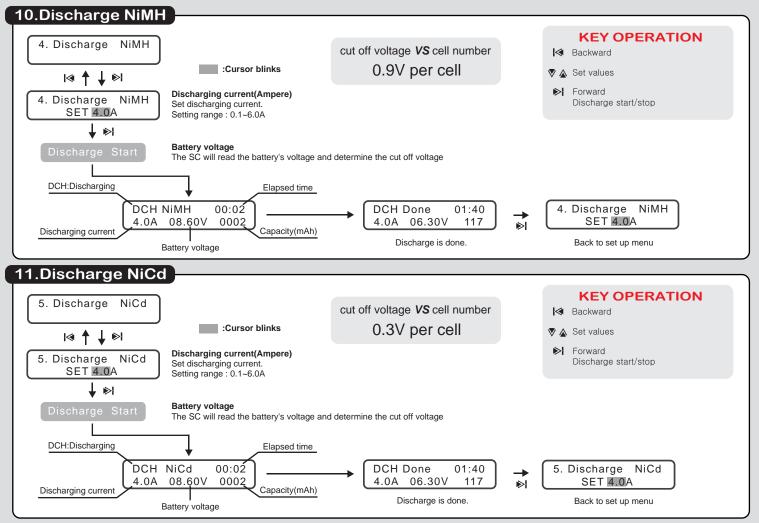


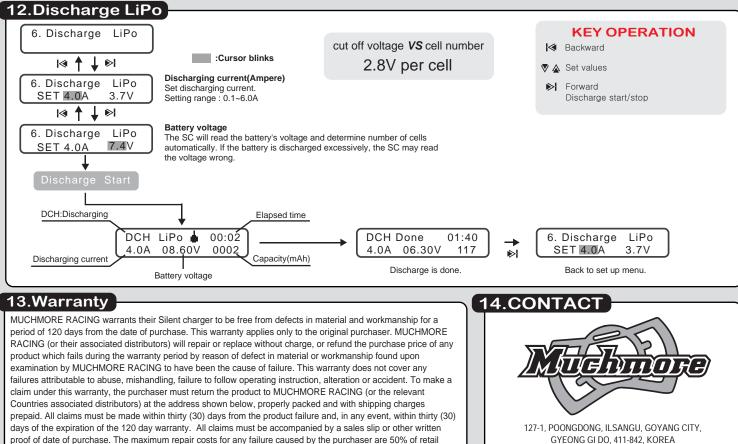




9.Charge LiPo







GYEONG GI DO, 411-842, KOREA PHONE +82 31 903 0487 FAX +82 31 903 0497

KOREA www.much-more.co.kr JAPAN www.much-more.co.jp

UK www.much-more.co.uk	
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USA www.teammuchmore.com

price (original purchase price). Since we cannot supervise the proper use of our products, we can not accept any liability for direct or indirect damage of any type arising from their use or occurring to the property of the user

and/or third parties. Therefore, any use of this product shall take place at the user's own risk. The warranty claim

may not exceed the value of this product in any case. By putting this product into operation you accept the above

conditions and assume full responsibility for use of this product.