

LCD Digital Display Universal Charger For Rechargeable Li-Ion, LiFePO4, Ni-MH, Ni-Cd
3.7V / 3.2V Selectable (1.2V) Automatic Detect And Processing For Charging

Four Channel Rapid Charger For Cylinder Cell , And Individual Operation
0.25A/0.5A/1A Selectable Constant Current/Constant Voltage Charge
Is Designed For Different Size Battery: 26650、18650、18490、16340、AA、AAA (3.7V、3.2V、1.2V)

■ SC-H4 Features

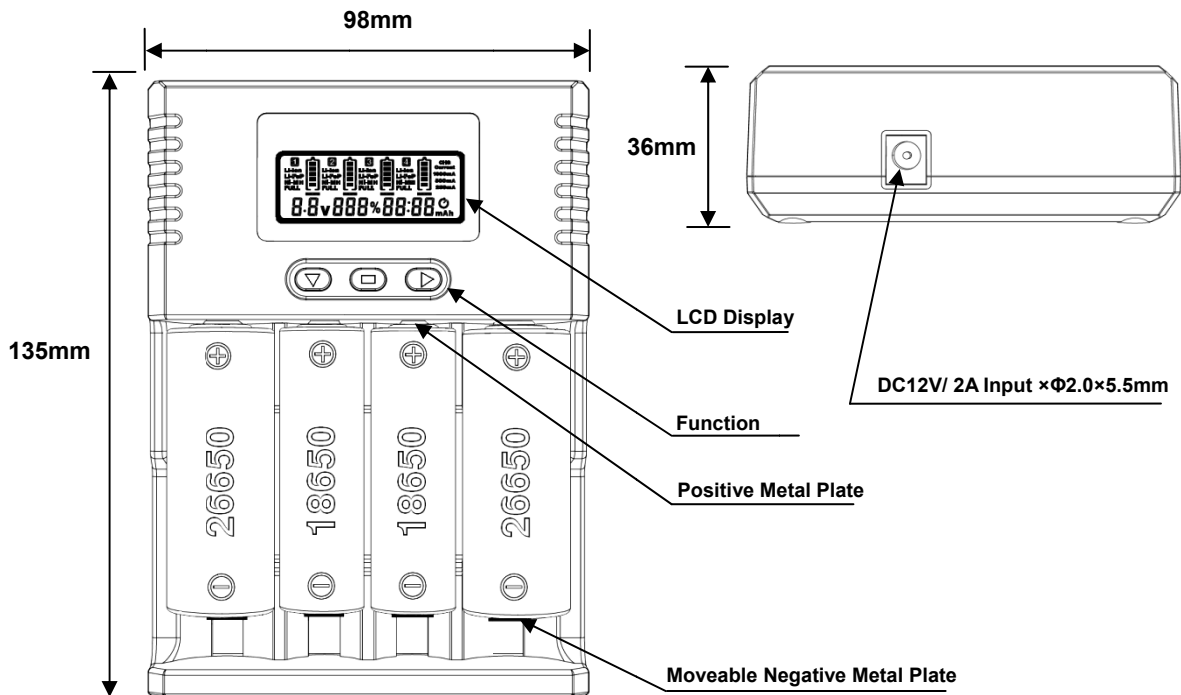
- ◆ Precision end-of-charge voltage detection
- ◆ Floating-charge maintains battery in full charge
- ◆ LCD displays for multi-information, voltage ,time ,charging percentage ,charging capacity and bad battery
- ◆ LCD Backlight will automatic turn off within 60 seconds for saving power
- ◆ Metal plates for charging connection can easy adjust for many different type battery cell
- ◆ Four Battery Channels, Can Mix Charging For Different Size And Type Battery Cell
- ◆ 3 Key Individual Operation: Set Charging Mode、 Check Battery Status
- ◆ 3.7V/3.2V/1.2V battery cell voltage and polarity detection
- ◆ Over Charging timeout protection
- ◆ Auto alert indication for bad battery cell
- ◆ Power input can use DC12V for charging
- ◆ Power input can use DC18V Photoelectric cell Panel for charging
- ◆ Auto active function for Lithium battery cell open (0 Voltage)

■ SC-H4 Specification

Manual Selectable For Li-Ion and LiFePO4 Charging mode, Auto intelligent detect NiMH/NiCd battery cell For Charging.

- ◆ Battery type: 3.7V rechargeable Li-Ion battery cell、 3.2V rechargeable LiFePO4 battery cell、 1.2V NiMH/NiCd rechargeable cell
- ◆ Protection: short circuit, polarity and defective battery detection
- ◆ Power Input: 12 VDC 2A /DC16V 20W Photoelectric cell panel
- ◆ Charge mode: constant current first then constant voltage (CC / CV)
- ◆ Cut-off voltage: 3.7V Li-Ion battery cell is (4.2V±0.05V / 80mA)
- ◆ Cut-off voltage: 3.2V LiFePO4 battery cell is (3.6V±0.05V/80mA)
- ◆ Cut-off voltage: 1.2V battery cell is ($-\Delta V / \Sigma \Delta V$)
- ◆ Individual select 0.25A/0.5A/1A charging current for each channel
- ◆ Standby current: DC12V 60mA
- ◆ 2 Battery compartment dimension: diameter 26mm,maximum length 72 mm, minimum length 32mm
- ◆ 2 Battery compartment dimension: diameter 18mm,maximum length 72 mm, minimum length 32mm
- ◆ Operating temperature: 0°C ~ +55°C
- ◆ Storage temperature: -25°C ~ +70°C

■ Plastic Outline



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■ Operating Instruction

The intelligent charger can connect the DC12V/2A Output AC power adaptor or DC12V car cigarette lighter adaptor for charging, after power on, and backlight will light on about 60 seconds, the charger is on standby mode and LCD displays the default setting or the previous setting.

Attention: Default setting for all channels is Li-Ion battery and 1000mA charging current

The four channel intelligent charger is a multifunction and settable mix charge for different battery at same time, before insert a rechargeable battery, please check the corresponding channel setting and charging mode is correctly for the rechargeable battery, if need to change the setting or charging mode for the charger, can use the function key to change the setting or charging mode. 《please refer to function key description》

- ◆ move and slide the moveable negative metal plate to flexible and easy insert battery cell
- ◆ Insert battery into charging compartment, then move and slide the moveable negative metal plate to fix the battery cell.
- ◆ Then add force to the moveable negative metal plate to fix the inserted battery cell, and make sure the polarity of battery cell in good connection.
- ◆ The charger will automatically detect the voltage and polarity of the rechargeable battery cell, and auto select a suitable condition for charging.
- ◆ Once the connecting has been verified by the charger the battery icon and 5 levels of the LCD display will running light up to indicate that the charging process has started, after 5 running cycle, the level icon will stop and indicate the percentage level for a few time, after charging is completed, the battery icon and 5 levels stops running and all light on
- ◆ If charging after a period, LCD display shows 『FAIL』 characters and battery icon flash, the rechargeable battery cell may be faulty and need replacing.
- ◆ The charge will turn off automatically when the battery cell is full owing to the function of the microprocessor.
- ◆ If for any reason the battery cell does not exhibit the right "battery full" characteristics, the integrated safety timer or maximum charging capacity terminates the charging procedure

■ FUNCTION KEY Description

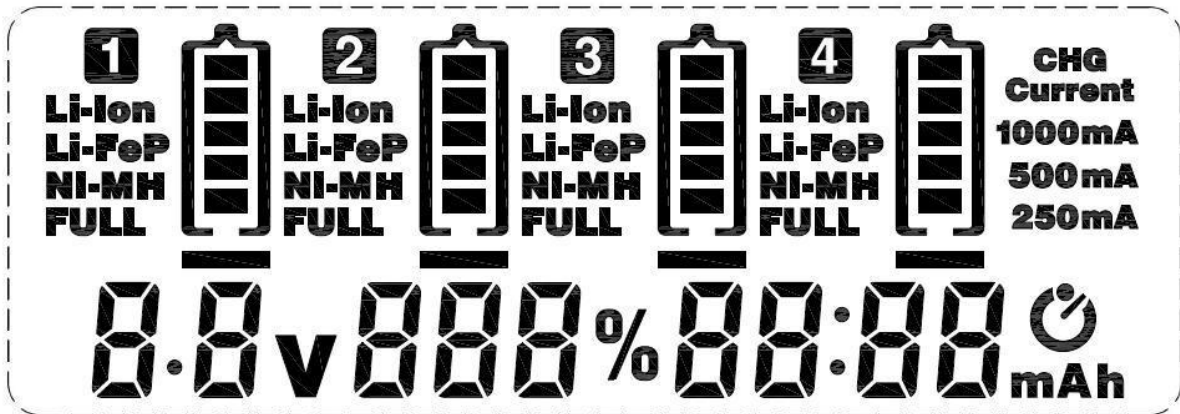
The 3 Function key has 3 function, 1) set the charge processing mode, 2) active the backlight light on, 3) check the charging time and charging capacity status.



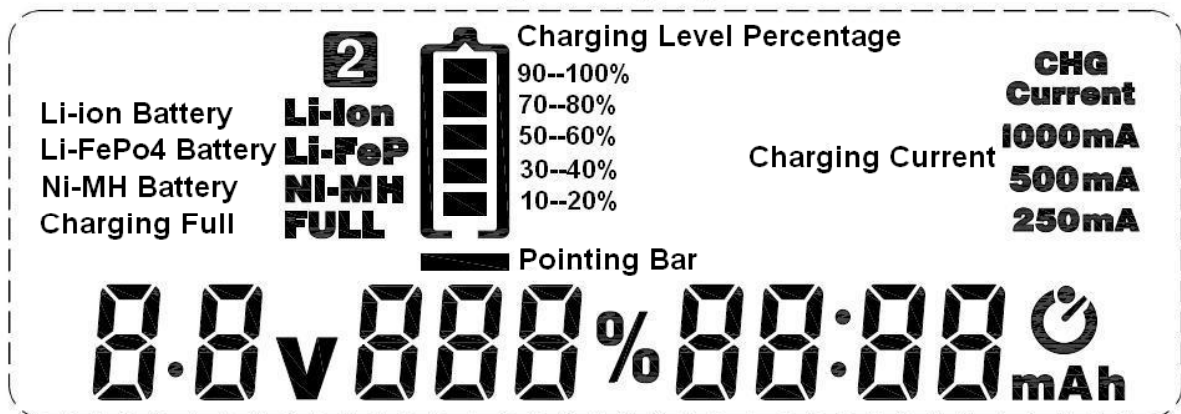
- For check the charging status or setting mode must operating with LCD back light is on, press any key when LCD back light is off, will turn LCD back light on for 60 seconds, after 60 seconds the LCD back light will automatic turn off, press any key when LCD back light is on, will extend the LCD back light on for 60 seconds.
- the shift key (▶) is used to control the pointing bar moves to right side, the LCD information is indicated the pointing bar state at the corresponding channel.
- The set/enter (◻) key is used to charging mode or charging current setting, when need to change the setting, must no battery install to the corresponding channel, first move the pointing bar to the battery channel which need to change setting, for example: the original setting of the channel is (lon) Li-Ion battery charging mode, now need change to (FEP) LiFePO₄ battery charging mode, press the set/enter key (lon) character will flash, then press the select key ,(lon) character will change to (FEP) character, then press the set/enter key again, (FEP) LiFePO₄ battery charging mode setting is successful. If need change the charging current, also need the select key to change setting, then use the set/enter key to success the progress.
- the select (▼) key has two function, 1: to change setting of the charging mode、2: to check the charging capacity when in charging processing. The select key is select a setting then use set/enter key to success the progress.

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LCD Display Description



Battery Charging Status



Battery Voltage
 Indication

Charging Level
 percentage Indication

Charging Time / Capacity And
 Current Indication

Charging Mode And Charging Current Setting



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Charging Status Description

