CH4S Smart Charger

KLARUS first four cell multi-battery charger with individual

charge and voltage, charging capacity display function

**Features**

• Microcomputer control system allows each of the four battery slots to charge and display the

 voltage and charging capacity of each battery independently

• Capable of charging 4 batteries simultaneously (Ni-MH/Ni-Cd/LiFePO4/3.7V Li-ion/3.8V

 Li-ion)

 Li-ion：26650 22650 18650 18490 17670 17500 16340 14500 10440 16340 (RCR123A)

 Ni-MH/Ni-Cd：AA AAA AAAA C

• Charging voltage is from 100-240V, suitable for use in ANY country worldwide

• LCD panel clearly displays battery's charging progress, type, voltage and capacity

• Can be used to charge batteries either as a Car charger with DC (5V 2A) or as a home charger

 using AC

• DV Control technology improves the charging efficiency and shortens the charging time

• Built-in reverse polarity and short-circuit protection

• Features over-charge protection to prevent battery damage. Automatically stops charging

 when complete

• Auto-activation function:

 a). Automatically reactivates “zero voltage” short-circuit protected Li-ion batteries that have

 been completely drained of power

 b). LCD displays “null” when attempting to charge a battery that cannot be reactivated

• Made from durable ABS (fire retardant/flame resistant) for your safety

• Designed for optimal heat dissipation, long lifespan

**Specification**

• Input Voltage: AC 100-240V 50/60Hz

• DC 5V 2A

• Output Voltage: 4.35V ±0.02V/4.2V±0.2V/ 3.6V ±0.02V / 1.43V ±0.02V

 Input Current: 1000mAh x 2/500mAh x 2

 (Slots 1 and 4 current: 1000mAh z for large capacity batteries; Slots 2 and 3 current

 500mAh for small capacity batteries)

• Size：145mm×100mm×3mm

• Compatible with: LiFePO4, 3.7v & 3.8v Li-ion, Ni-MH, Ni-Cd

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 Ni-MH, Ni-Cd：AA AAA AAAA C

• Weight: 260g

• Optimal working environment: humidity 5-90% and temperature 0-35°C ( fully-laden regular

 activity)

• Storage temperature: 0°C-40°C

**Operating instructions**

• LCD will display “null” when connected to electricity

• Gently insert rechargeable batteries with positive end (+) at top of the charger and negative

 end(-) end against the bottom spring tab

• Do not attempt to charge non-rechargeable batteries or reverse polarity batteries in this

 charger

• The charger will automatically identify 3.7V Li-on and Ni-MH/Ni-Cd battery types when cells

 are inserted and will begin the charge process within 8 seconds. The LCD will display the cell

 voltage, capacity and charging progress of the battery

• Two convenient buttons located on the side of the charger allow easy selection of specific

 battery types and charging parameters

• 1 & 4 are fast-charge channels specifically for large capacity ( Li-ion) batteries

 2 & 3 are intended for small capacity ( Ni-MH, 16340, LiFePO4, Ni-Cd, ) batteries

• However, if you wish to charge a 3.8V Li-ion battery, you will need to select for this function

 using the side buttons. Within 8 seconds after inserting a '3.8V' battery, first press the 'BAY'

 button to select the applicable bay, then press the button to change the battery type

 to '3.8V' for charging

 Charging capacity display information:



 Charging state: Sequential power grid illumination

• Backlight will automatically go off after 120 seconds. Press the BAY or MODE button to turn it

 back on

• “FULL” and “100%” will flash alternately when charging is complete

**Attention**

• Please ONLY select “Li-ion 3.8V” on the 'Mode' button if you are charging batteries

 identified as 3.8V Li-ion cells

• Do not attempt to charge reverse polarity/ induction charge batteries in this charger

• For your protection and that of the cells being charged, use the CH4S only as instructed

• Disconnect the power supply when charging is complete

• Do not attempt to charge with AC and car power sources simultaneously

• As with all electrical appliances, keep the charger out of reach of children

**Warranty Service**

• If found to be defective within 15 days from date of purchase, your KLARUS CH4S charger will

 be replaced . Thereafter, within 12 months of purchase, the CH4S will be repaired.. Beyond 12

 months, the warranty covers labor costs and maintenance but excludes accessories or

 replacement parts

• The warranty is nullified in any of the following situations:

 1.The product(s) is/are broken down, reconstructed and/or modified under unauthorized

 conditions

 2.The product(s) is/are damaged through improper use

 3.The product(s) is/are damaged by leakage of batteries

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