



## Intellicharger NEX-WS1 Operation Manual

NEX-WS1 is a professional dual-slot rechargeable battery smart-charger with LCD screen function. Two batteries can be perfectly charged by choosing the appropriate current charging mode of three and never affected by each other in the charging process. In addition, the charger can monitor and display the voltages and quantities of electric of the charged batteries.

### Features

- Use microcomputer control system to charge two batteries independently at the same time and support mixed charging mode.
- LCD screen synchronous indicate battery status and charging process, the voltage and alternating current.
- With 5V output, it can be used as a mobile power bank.
- With DC 12V vehicle input system.
- Any two of these Ni MH / Ni - CD / lithium batteries can be charged at the same time without capacity limit.
- “OV”lithium batteries Automatic activation function.
- Be compatible with almost all types of cylindrical rechargeable batteries. it can charge 3.7V (3.6V) lithium-ion battery and 1.2V Ni MH / Ni - CD batteries.
- Constant current and constant voltage charging mode.
- DV control technology attain high efficient charge.
- 100-240V input voltage range.
- With reverse polarity and short-circuit protection function.
- can charge the rechargeable batteries whose diameter < 26mm and height between 34-70mm.
- Constantly press the power conversion key  $\geq 3$  seconds, the charger starts electricity saving mode.

### Specification

Input Power	DC 12V 1A
0.25A CC Current	0.25A $\pm 20$ mA
0.5A CC Current	0.5A $\pm 30$ mA
1.0A CC Current	1A $\pm 50$ mA
Cut-Off Voltage	4.2 $\pm 0.02$ A
TC of 0.25A	$\leq 55$ mA
TC of 0.5A	$\leq 55$ mA
TC of 1.0A	$\leq 55$ mA
Auto Recharging Threshold Value Voltage	3.9 $\pm 0.15$ V
Detection Precision	$\pm 0.02$ V
Operation Temperature	0-40°C
Storage Temperature	0-70°C

### Manual instruction

#### (1) The way of displaying charging

1. LCD has no indication if there is no power input;
2. When there is power input, LCD screen display all information once at first, then display the middle lines and the current default 0.25A, no other indication;
3. The charger automatically identify the lithium battery and 1.2V Ni MH / Ni - CD batteries and the LCD screen display the voltage of the batteries after the batteries are put in;
4. Dynamically indicate the charging status:
  - A. present charging status
  - B. The meanings of displaying
  - C. On the status of charging, the the grids light one by one like the marquee light

Space symbol	The first grid light	The second grid light	The third grid light	The fourth grid light	The fifth grid light
0%-20%	20%-40%	40%-60%	60%-80%	80%-99%	100%
Under 3.65V	Under 3.8V	Under 3.9V	Under 4.1V	Under 4.2V	4.2V
Under 1.2V	Above 1.2V	Above 1.3V	Under 1.35V	Under 1.4V	Under 1.48V

## **(2)The indication way of discharge condition (the charger is used as a mobile power bank)**

1. When the charger has no input, put in one or two lithium batteries, the LCD screen has no indication, USB has no output; press the power conversion key·LCD indicate the grids of quantities of electricity(put out, the present relative voltage, USB put out 5V
2. Put in one or two lithium batteries in the charger, USB interface put out 5V1A/5V2A;
3. Each battery put out the voltage  $< 3.0V$ ; if the present voltage of the battery is under such voltage, the battery passage will be closed.
4. On discharge condition: the grids' light extinguish one by one like the marquee light

## **(3)Other features**

1. Ni MH / Ni - CD batteries: When the voltage ranging from  $0.4-1.0V$  is under charging, the indication lights flicker and give an alarm (under normal charging)
2. Ni MH / Ni - CD batteries: When the voltage ranging under  $0.4V$ , they can't be charged and the LCD screen doesn't indicate the grids and voltage;

## **Attentions**

NEX-WS1 is only suitable for lithium/Ni MH / Ni - CD batteries, if it is used for charging other types of batteries may cause explosion, break, leakage, body harm or loss of possessions.

1. Using the charger improperly will make you face the risk of electric shock.
2. Newwise WS1 should be used indoor, never expose it in rain or snow.
3. Don't disassemble or assemble the charger.
4. Never drop the charger to the floor or put something heavy on it
5. The children can use the charger under the supervision of their parents.
6. Working temperature ranges from  $0^{\circ}C$  --  $40^{\circ}C$

## **After-sale service**

The consumers can ask the dealer for a replacement for free if it has defect in quality within 15 days of buying the products. The consumers can get the products repaired for free within 12 months of buying the products. We will ask for the spare parts fee if the products were bought more than 12 months ago.

The situations as follows are not acceptable by the above service rules:

1. The products are broken, disassembled or changed by human factors
2. Operate the products in wrong way
3. The leakage of batteries cause the damage of the product