

Universal Multi-Channel Ni-MH/Ni-CD Fast charger with LCD Display and USB output

MB-3555

1. Description:

| | |
|---------------------------|--------------------------------------------------------------|
| Rechargeable battery type | Ni-MH/Ni-Cd |
| Channel | 6 PCS compatible channel of AA/AAA/C/D 2 port of 9V block |
| Input Power | AC input: Built-in AC-DC adapter DC input: N/A |
| Input Plug/Cable | Australian plug |
| LED | 8 PCS red LED for each channel |
| LCD | YES |
| Backlight | N/A |
| Size | 180(W) x 144(D) x 55(H)mm |
| Color | Black |
| Operation temperature | 0---+25°C |
| Store temperature | -25---+60°C |

2. Rating:

Current Tolerance

INPUT: 100-240V AC 50/60Hz 390mA

OUTPUT: 1.2V* 6*500mA (AAA size) 6*250mA (AAA size with USB) ±10%
 1.2V*6*1000mA (AA size) 6*500mA (AA size with USB) ±10%
 1.2V*4*1000mA (C or D size) 4*500mA (C or D size with USB) ±10%
 2*70mA (9V size) 2*35mA (9V size with USB) -10%/+20% USB OUTPUT :
 5VDC 1000mA ±5%

3. Charge data:

| Item | Condition | Data | Indication(exception 9V block) |
|---------------------------------------------------------------------------------------------|----------------------------|------------|--------------------------------|
| Reset | Power on | N/A | RED LED flash 3 time |
| Battery Test | Bad battery/wrong polarity | Vmax>1.65V | Red flash(on=0.5s off=0.5s) |
| Capacity Test: The Capacity test takes around 5s. After the Capacity test the charger | Voltage>1.3V-1.5V | N/A | RED (turn to fast charge mode) |
| | Voltage> 9.1V-10.5V | N/A | RED (turn to fast charge mode) |
| | 1.23V<Voltage<1.3V | N/A | RED |

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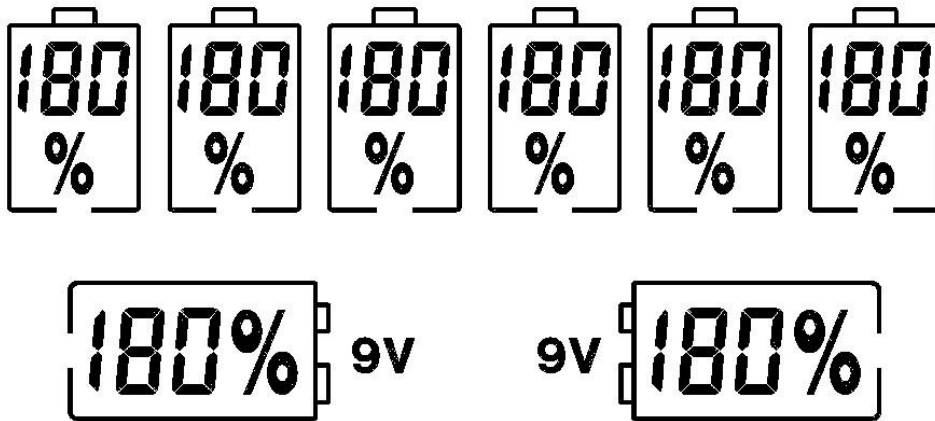
| | | | |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| will start the program. | | | Turn to Pre-charge mode |
| | 8.6V<Voltage<9.1V (9V) | N/A | RED Turn to Pre-charge mode |
| | AAA/AA/C/D Voltage<1.23V | N/A | RED flash (on=2s off=0.5s) Turn to refresh mode |
| | 9V-Block Voltage Voltage<8.6V | N/A | RED flash(on=2s off=0.5s) Turn to refresh mode |
| REFRESH-Mode | Voltage<1.23V | Cycle: Charge: 20mS Discharge: 880mS Stop: 100mS AA/C/D charge current: 1000mA AAA charge current: 500mA AA/C/D discharge current: 220mA AAA discharge current: 180mA | RED flash(on=2s off=0.5s) |
| REFRESH-Mode for 9V battery | Voltage<8.6V | Cycle: Charge: 20mS Discharge: 880mS Stop: 100mS Charge current: 70mA Discharge current: 40mA | RED flash(on=2s off=0.5s) |
| Pre-charge mode | AAA/AA/C/D 1.23V<=Vbat<1.30V <1.0V/CELL(From refresh mode) 9V-Block: VBAT<9.1V | charge duty-cycle: 50% stop: 50% | RED |
| Fast charge mode | AAA/AA/C/D Voltage>1.3V-1.5V 9V-Block Voltage>9.1V-10.5V | charge duty-cycle: 95% stop: 5% | RED |

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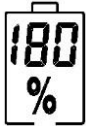
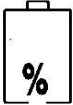

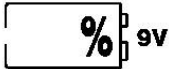
| | | | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------|
| Ready Mode/ Trickle charge mode | AAA/AA/C/D Voltage>1.5V 9V-Block Voltage>-10.5V Vmax=1.65V/cell | Trickle charge: charge duty-cycle: 5% 50ms stop: 95% 950ms AA/C/D=1000*5%=50mA AAA=500*5%=25mA | LED OFF |
| | -deltaV<10mV/cell Timer=10hours, Max charging time is 10 hours. After that it changes to trickle charge mode. 0 deltaV = 0mV/240minuers | 9V-Block=70*5%=3.5mA | |
| USB device sense | USB output current>450mA | Charge current is half | |
| Stand by power | 100-240V AC | <1W | |
| Stand by | LED | NO battery | LED OFF |

4. LCD indication: Power on Reset: all the bars flash 3 times.



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| Item | Description |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power on | All Symbol flash 3 times. |
| Symbol:  | 1)The indication of the charging progress is as follows: <1.32V “00%” 1.35V “10%” 1.37V “20%” 1.38V “30%” 1.39V “40%” 1.4V “50%” 1.42V “60%” 1.43V “70%” 1.45V 80%” 1.47V “90%” FULL “100%” 2) Refresh-mode: “00%” flash |
| Symbol:  | Error: the symbol will be flash. |
| Symbol:  | 1)The indication of 9V battery of the charging progress is as follows: <9.24V “00%” 9.45V “10%” 9.59V “20%” 9.66V “30%” 9.73V “40%” 9.8V “50%” 9.94V “60%” 10V “70%” 10.15V “80%” 10.29V “90%” FULL “100%” 2) Refresh-mode: “00%” flash |
| Symbol:  | Error: the symbol of 9V battery will be flash. |
| Stand_by | All off |

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3. Sketch & picture

