THE MASTER SERIES

Model No MW7168

Automatic Universal Ni-Cd/Ni-MH Battery Charger with ∆V Detection and Discharge Function

Input Voltage: 12VDC, CE Approved. For use from 240VAC use optional power supply MP3096
Output Voltage: 1.4V (1 cell) - 14V (10 cells) (Auto Detect)
Charge Current: 100mA - 4000mA (Manual Select)

The standard package Includes the following features:

1) Automatic battery voltage detect (1 cell - 10 cells)

2)   V detection, Maximum voltage detection, Timer detection, AT/At detection and Maximum Temperature detection

3) Manual charge current select (100mA - 4000mA) with charge current meter

4) Temperature sensor to prevent overcharge of battery. This temperature sensor can be stored in the case.

5) Discharge Function

6) Built-in polyswitch for 1.) Reverse Polarity Protection.

                  2.) Short Circuit Protection

                  3) Overload Protection.

7.) Cigarette lighter connector, cable 01F-FCP1, 0413-FX2, X201E and X2-IF011D

To have optimum performance of this Charger, it is the best to select the charging current with 0.3C - 1 C (C = Battery Capacity)

Dimension: 149 x 120 x 83mm

Packaging: Individual Colour giftbox

MW7168

01F-FCP1	**0413-FX2**	**X201E**	**X2-IF011D**

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Operating Instructions:

1. Connect the input of the charger to 12V DC supply. Ensure correct polarity. The red 'POWER' LED should come on.
2. Strap the temperature sensor onto the battery pack to be charged. Ensure that the sensor makes good physical contact with the pack.
3. Connect the battery pack to be charged to the charger. Ensure correct polarity (red alligator clip to + of battery and black alligator clip to – of battery). The red 'CHARGE' LED should come on. The '40%', '80%' and the green 'READY' LEDs should flash on and off for about one minute while the charger's automatic voltage detection feature calculates the number of cells to charge.
4. While the above LEDs are flashing on and off select the charging current by adjusting the knob on the front panel. The charging current should be set between 0.3C – 1C (C = Battery Capacity). Observe the meter on the front panel for the charge current level. NOTE:- During charging the meter on the front panel will pulse and the '40%', '80%' and 'READY' LEDs will come on as the battery pack reaches certain level of charge.
5. DISCHARGE, press and release the 'CHARGE / DISCHARGE' button once, the yellow 'DISCHARGE' LED will come on, the red 'CHARGE' LED will go off and the '40%', '80%' and 'READY' LEDs will flash on and off for about one minute then stop and discharge will commence. NOTE:- The meter on the front panel will not deflect during discharge. When the discharge is completed the charger will automatically switch to charge mode and charge the battery pack. If during discharge, the 'CHARGE / DISCHARGE' button is pressed and released once, the charger will then switch back to charge mode.
6. When the '40%', '80%' and 'CHARGE' LEDs goes off and the 'READY' green LED flashes on and off, the battery pack is fully charged. The charger will then send a pulse every 10 second into the battery pack until it's disconnected. This ensures the battery stays topped-up and fully charged.
7. Once battery is fully charged, the battery pack can then be disconnected at any time from the charger.
8. After the battery pack has been disconnected from the charger, disconnect the 12V DC supply from the charger.