

XH-M602 Digital Battery Charging Control Module

Programmable Battery Charge Controller Protection Switch (DC 3.7V–120V)

Description:

The **XH-M602 Digital Battery Charging Control Module** is designed for automatic battery charging control. It continuously monitors the battery voltage and controls charging based on preset upper and lower voltage thresholds. Once the battery reaches full charge, the module automatically disconnects the charging source to prevent overcharging and potential battery damage.

The module features a **bright 3-digit seven-segment LED display**, **high-quality plastic transformer**, and **corrosion-resistant screw terminals**. It is suitable for both **lead-acid** and **lithium-ion batteries** operating between **3.7V to 120V DC**.

Specifications:

Parameter	Details
Model	XH-M602
Input Voltage	AC 110–220V
Display & Control Accuracy	0.1V
Output Type	Output Switch
Compatible Batteries	Lead-acid & Lithium-ion (DC 3.7V–120V)
Display Type	3-digit 7-segment LED
Protection	Overcharge & Power Loss Protection
Material	Plastic Transformer with Anti-Corrosion Protection

Features:

- High-quality **screw terminals** for secure connections
- **Plastic transformer** for corrosion and moisture resistance
- Real-time **battery voltage monitoring**
- **Automatic cutoff** when full charge voltage is reached
- Protects battery from **overcharging and power loss**
- Simple setup with “Start” and “Stop” keys for voltage adjustment
- Display accuracy up to **0.1V**

How to Use:

- **Set Charging Start Voltage:**
 - In normal mode, press “**Start**” to view initiation voltage
 - Long-press for 3 seconds (LED flashes) → adjust using “Start/Stop” buttons
 - **Set Charging Stop Voltage:**
 - In normal mode, press “**Stop**” to view cutoff voltage
 - Long-press for 3 seconds (LED flashes) → adjust using “Start/Stop” buttons
 - **Reset to Default:**
 - Press “**Start**” and “**Stop**” together → display shows “888”
 - Default start voltage = 12V, stop voltage = 14V
 - **Voltage Setting Formula:**
 - Charging Start = Battery Rated Voltage $\times$ 0.9
 - Charging Stop = Battery Rated Voltage $\times$ 1.2
 - Charging Current = Battery Rated Current $\times$ 0.1
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Package Includes:

- 1 $\times$ XH-M602 Digital Battery Charging Control Module
(Programmable Battery Charge Controller Protection Switch DC 3.7V–120V)