

# Auto Battery Charger ABC-Series

The "Auto Battery Charger ABC-Series" has been design to be at least 25% more efficient than other ordinary chargers. It will reduce your electric costs and increase your charging speed. Furthermore, it has built in protection systems designed to protect your battery and extend the life of your battery.

## Features:

- Short-circuit protection:** Charger O/P cuts off automatically when short-circuit.
- Overload Protection:** Charger O/P automatically limits the current when overloaded.
- Reverse Polarity Protection:** Charger O/P cuts off automatically when battery clamps reversed.
- Intelligent Temperature Compensation:** Adjust charging voltage to compensate for battery temperature , providing an accurate charger in any climate.
- Automatic multi-rate charge:** Equalizer charge (charges quickly when battery low) and Floating charge (charges slowly when battery high).
- Unique LCD Display or Meter Display.**
- Indicator lights:** Red (Power On), Green (Floating charge)and Yellow (Equalizer charge).
- Wide Input Voltage Range**
- Advanced SMD Technology:** Reliable and elegant.
- Stylish Aluminum Housing:** Strong and efficiently disperses heat.



ABC-1220M/S



ABC-1206/M



ABC-2404/M/S



ABC-1210/M



ABC-2407/M/S

## Specifications:

| Voltage    |                  | ABC-1206M/S  | ABC-1210M/S  | ABC-1220M/S                               | ABC-2404M/S   | ABC-2407M/S  | ABC-2412M/S                               |
|------------|------------------|--|--------------|---|---------------|--------------|---|
| Input      | Voltage          | AC100V ~ 240V  |              | AC100V-120V or AC200V-240V or AC100V-240V | AC100V ~ 240V |              | AC100V-120V or AC200V-240V or AC100V-240V |
|            | Frequency        | 47-63Hz  |              |   |               |              |   |
| Output     | Equalizer Charge | DC14.4V±0.2V   | DC14.4V±0.2V | DC14.4V±0.2V                              | DC28.8V ±0.2V | DC28.8V±0.2V | DC28.8V±0.2V                              |
|            | Floating Charge  | DC13.6V±0.2V   | DC13.6V±0.2V | DC213.6V±0.2V                             | DC27.2V±0.2V  | DC27.2V±0.2V | DC27.2V±0.2V                              |
|            | Current          | 6A(Max.)   | 10A(Max.)    | 20A(Max.)                                 | 4A (Max.)     | 7A (Max.)    | 12A (Max.)                                |
|            | Wattage          | 85W(Max.)  | 145W(Max.)   | 288W (Max.)                               | 115W (Max.)   | 200W (Max.)  | 346W (Max.)                               |
|            | Efficiency       | >87% (at Full Load)  |              |   |               |              |   |
| Output     | Battery Reverse  | Yes  |              |   |               |              |   |
|            | Short-circuit    | Yes  |              |   |               |              |   |
|            | Overload         | Yes  |              |   |               |              |   |
|            | Temperature      | Yes  |              |   |               |              |   |
|            | Cooling Fan      | No   | Yes          | Yes                                       | No            | Yes          |   |
| Indication | LED              | Red: power on / Green: floating charge / Yellow: equalizer charge                            |              |   |               |              |   |
|            | LCD              | No   | Optional     | Optional                                  | No            | Optional     | Optional                                  |
|            | Meter            | Optional   | No           | No  | Optional      | No           | No  |
| Mechanical | Dimensions       | 155x70x48  | 167x103x50   | 190x118x58                                | 155x70x48     | 167x103x50   | 190x118x58                                |
|            | Visual           | 0.5  | 0.9          | 1.2                                       | 0.5           | 0.9          | 1.2                                       |
| Accessory  | O/P Wires        | Either DC alligator clips for external batteries or microphone Connectors for electric bikes |              |   |               |              |   |

- Remark 1. Meter: DC current meter  
 2. LCD : FLOAT : Floating charge  
 EQUALIZE: Equalizer charge and Battery level (high/low)  
 CHARG'G: Charging

3. 36V/48V models are available upon request