



For VRLA & Conventional type Motorcycle batteries

AUTOMATIC BATTERY CHARGER MB-2040

(Applied Battery type: 12V · 2~32Ah/10HR)

This battery charger has the following advantages when compared with normal charger (Semi-CV type) and is suitable for both VRLA & Conventional type lead acid motorcycle batteries.

■ Features

1. **Capability to charge deeply discharged batteries**
Deeply discharged batteries can be recharged using the recovery-charging mode.
2. **Determination if battery can be recovered**
Determines if the battery can be recovered after 30 min. as indicated by LED.
3. **Selectable output current**
1A / 4A selectable.
4. **Automatic shut off**
Charging will stop automatically after 12 hours maximum.
5. **Safety standard**
CE, UL/CUL and JET approved.

■ Protection

- ① Reverse connection and Short circuit
- ② Spark prevention when connecting charging clips
- ③ Automatic shut-off when charging clip is disconnected
- ④ Over charge-high current protection (Output)
- ⑤ Reverse current prevention (3.0mA or less)
- ⑥ Thermally protected transformer prevents overheating



AC input (50/60Hz)		DC Output					Dimension(m/m)			Mass (Approx. kgs.)	Applied battery (V) / (Ah/10HR)
Voltage(V)	Current(A)	Charging mode	Mode 1 (30 min.)		Mode 2 (Max.11 hrs.)		W	OH	D	3.7	12 / 2~32
			Voltage(V)	Current(A)	Voltage(V)	Current(A)					
100	Max. 2.0	QUICK	Max.20.0	4.0	14.5 <td>Max.4.0</td> <td rowspan="5">178</td> <td rowspan="5">109</td> <td rowspan="5">255</td>	Max.4.0	178	109	255		
120	Max. 2.0										
220	Max. 1.0	NORMAL									
230	Max. 1.0										
240	Max. 1.0			1.0		Max.1.0					

(※ Input voltage, current and frequency to be changed from country to country)

《Estimated charging time (at 20 deg.C ambient temperature)》

Battery capacity (Ah / 10HR)		Less than 5	~8	~12	~18	~32
Charging Time (Hrs.)	Quick Mode	---	4.0	5.0	6.5	12.0
	NORMAL Mode	3.0	6.5	11.0	12.0	12.0

※1. Use the Normal Mode for small batteries (less than 5Ah batteries).

2. For a new battery, add electrolyte and charge for 2 hours in Normal Mode. If the aluminum sealing tape has been removed and/or the battery is more than 2 years old, charge until charger stops automatically.