



For VRLA & Conventional type Motorcycle batteries

AUTOMATIC BATTERY CHARGER MB-2023

(Applied Battery type: 12V · 2~6Ah/10HR)

This 2A × 3 channel multiple output 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

- 3 channel multiple output**
Can be charged to 3 batteries automatically.
- Capability to charge deeply discharged batteries**
Deeply discharged batteries can be recharged using the recovery-charging mode.
- Determination if battery can be recovered**
Determines if the battery can be recovered after 30 min. as indicated by LED.
- Automatic shut off**
Charging will stop automatically after 12 hours maximum. ("NEW" mode)
- Safety charging for new battery**
Safety charging mode for charging newly acid filled battery. ("NEW" mode)
- Maintain charging function**
Switch to maintain charging mode after 10 hours maximum to keep battery in charged condition. ("NORMAL" mode)
※Explanation of charging mode:
"NEW": Mode for newly acid filled battery in the event that the battery voltage does not reach to 12.5V 20 minutes after filled with acid.
"NORMAL": Mode for battery once in use.
- Safety standard**
Applied for CE and UL/CUL.

■ Protection

- Reverse connection and Short circuit
- Spark prevention when connecting charging clips
- Automatic shut-off when charging clip is disconnected
- Over charge-high current protection (Output)
- Reverse current prevention (3.0mA or less)
- Thermally protected transformer prevents overheating
- Safety charging function for charging newly acid filled battery ("NEW" mode)



AC Input (50/60Hz)		DC Output						Dimension (m/m)			Mass (Approx.kg)	Applied battery (V)/(Ah/10HR)	
Voltage (V)	Current (A)	Recovery charging		Bulk charging		Maintain charging		W	OH	D			
100	Max. 3.6	Charging mode	Voltage (V)	Current (A)	Voltage (V)	Current (A)	Voltage (V)	Current (A)	170	91	210	4.5	12/2~6
120	Max. 3.0												
220	Max. 1.8												
230	Max. 1.8	NEW	Max.20.0	Max.0.2	Max.14.0	Max.2.0	---	---					
240	Max. 1.8	NORMAL			Max.14.5	Max.2.0	Max.13.3	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)		2.5	3	4	6
YUASA battery type (Major type)		YB2.5L-C YTR4A-BS	YT4B-BS YT4L-BS	YB4L-B YTX5L-BS	YTZ6S YTX7L-BS YTX7A-BS YTZ7S
Time (H)	NEW mode	0.5	0.5	1.0	1.5
	NORMAL mode	6.0	6.5	7.0	8.0

(Note: Specification shown on this leaflet may change time to time without notice)

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