MW-SC4B Electronic smart charger – 6V/1A , 12V/1A/4A



Features:



Suitable for 6V and 12V lead-acid wet, gel and AGM batteries
 Battery capacity: 1.2Ah – 14Ah(6V), 1.2Ah-120Ah (12V)

 Protections: Short circuit / Over voltage
 Selectable charging current: 1A (6V), 1A/4A (12V)

 LCD display and user-friendly interface, Microprocessor-controlled

 Battery condition detection, recondition mode
 Applications:

• Cars, quads, boats, lawn mowers, motorcycles,

mopeds, snow and water scoooters

ELECTRICAL SPECIFICATION

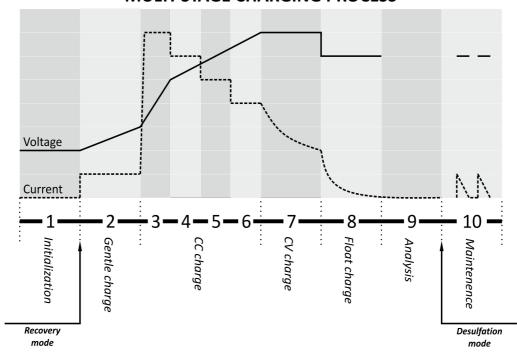
MODEL	MW-SC4B			
INPUT				
Input voltage	220-240V (50Hz)			
Input current (max.)	0.75A/230VAC			
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Output voltage (max.)	7.4V	14.	7V	
Output current	1A	1A	/ 4A (selectable)	
Rated power (max.)	88.2W			
Efficiency (typ.)	80%			
PROTECTIONS				
Over voltage	>9VDC (6V mode), >16V (12V mode), shut down output voltage			
Short circuit	Shut down output voltage, indicated on the display			
WORKING ENVIRONMENT				
Working temperature	-5°C ÷ +40°C			
Working humidity	20-90% (RH non-con	20-90% (RH non-condensing)		
Storaage temperature and humidity	-10°C ÷ 60°C, 10 ÷ 9	-10°C ÷ 60°C, 10 ÷ 95% (RH non-condensing)		
SAFETY AND EMC REGULATIONS				
Safety standards	EN 60335-2-29:2004	+ A2:2010; EN 60335-1:2012	+ A11:2014	
EMC standards	EN 55014-1 , EN 610	EN 55014-1 , EN 61000-3-3, EN 55014-2, EN 61000-3-3, EN-61000-3-2		
OTHERS				
	Length	Width	Height	
Dimensions	177.0mm	71.0mm	44.0mm	
Weight (net/gross)	0.410kg / 0.525kg			
EAN code	5 9 0 2 1 3 5 1 3 6 0 2 7			

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POWER®

MODE		
Mode 1 – 6V (max. 7.2V/1A)	7.2V/1A)Suitable for 6V batteries with a capacity between 1.2Ah and 14Ah in normal state. Charging mode for WET, MF batteries and most GEL batteries.	
Mode 2 – 6V (max. 7.4V/1A)	CAUCHER OF WEAK OF WE	
Mode 3 – 12V (max. 14.4V/1A)	Suitable for 12V batteries with a capacity between 1.2Ah and 14Ah in normal state. Charging mode for WET, MF batteries and most GEL batteries.	
Mode 4 – 12V (max. 14.7V/1A)	Suitable for 12V batteries with a capacity between 1.2Ah and 14Ah in cold state. This charging mode is also designed for many AGM batteries.	
Mode 5 – 12V (max. 14.4V/4A)	Suitable for 12V batteries with a capacity between 14Ah and 120Ah in normal state. Charging mode for WET, MF batteries and most GEL batteries.	
Mode 6 – 12V (max. 14.7V/4A)	Suitable for 12V batteries with a capacity between 14Ah and 120Ah in cold state. This charging mode is also designed for many AGM batteries.	

CHARGING STAGES



MULTI-STAGE CHARGING PROCESS

MW-SC4B

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No.	Stage	Description	
1	Initialization	Checks the battery's condition to determine the charge process. If the battery is deeply discharged, it will enter into the Recovery Mode to refresh the battery.	
2	Gentle charge	Starts the charging process with a small current, which can warm up the batteries and avoid the battery suddenly bulk charged.	
3 - 6	Constant current charge	Returns 85% of the battery capacity by charging at max rate and other rate.	
7	Constant voltage charge	Brings the charge level to 95% by gradually decreasing the current, which limits battery gassing and prolong battery life.	
8	Float charge	Finalizes the charging process and brings the battery to maximum capacity.	
9	Analysis	It will cut off the output and analyze whether the battery can hold the capacity. It may enter into the Desulfation Mode to deeply recover the battery.	
10	Maintenence	Monitors battery condition. If battery voltage falls below its threshold, the charger restarts the charge, which ensures the battery at full charge and without the risk of overcharge.	

-	Recovery mode	Achieves the recovery process of deeply discharged or sulfated batteries by pulsing small current - refers to battery reconditioning function. This mode started automatically (when the battery is deeply discharged).
-	Desulfation mode	Recover battery capacity from a sulfated battery by applying a specialized high voltage to soften down sulfate from the battery plates - refers to battery reconditioning function. This stage is initialized after <i>Analysis</i> if the battery does not hold the charge.

For further details, please refer to the user manual.

MECHANICAL SPECIFICATION

