

Batteries Types:

12V lead-acid Battery: WET, MF, VRLA, AGM, GEL and Calcium Battery capacity: 1.2 - 120Ah, up to 160Ah for maintenance 12V 8A 8-Step Automatic Marine Battery Charger with Dual Output User Manual MB3627

Instruction:

- 1) Identify the correct polarity of the battery terminals. The positive battery terminal is typically marked with (+). The negative terminal is typically marked with (-).
- 2) Position cords and cables to reduce risk of damage by hood, door or moving parts (including fan blades, belts, and pulleys) or other parts that could cause injury to persons.
- 3) Connect the power supply
- 4) When battery is full, disconnect the power supply and remove the charger from battery.

Generally, charging is fully automatic. These are the charging steps, which should happen entirely automatically.

Steps	Index	Description
Step 1. Diagnosis	Check battery	Check battery
	If V > 10.5V then jump to Step 3	
Step 2. Recovery	2.0 - 10.5V 2.5A CC Pulse, Charging = 1 sec. Stop =	Rescue battery
	0.5sec. Go to error mode after 8 hours.	
Step 3. Soft Start	Just into Soft Start mode:	
	1. 0.9A charge at first (min. 3 sec), go to next if Vbat is	
	raised [12V (initial)]/2, go to BULK if > 12V.	
	2. 2.5A charge (min. 3sec.), go to next if Vbat is raised	
	[12V (initial)]/2, go to BULK if > 12V.	
	3. Go to error mode after 2 hours.	
Step 4. Bulk	4.0A Constant Current	Fast charge battery
	Voltage rise until 14.8V	
	Go to next step after 25hours.	
Step 5.	14.8V CV 4.0A max.	Slow charge battery
Absorption	Cut off current 0.4A.	
	Go to next step after 10 hours.	
Step 6. Analysis	>12.3V go to next	Measure battery voltage after 5mins
	Step	
	<12.3V error 5 minutes	
Step 7. Float	13.7V CV 4.0A max.	Float charge for backup type power
	Timer = 12 days	
Step 8.	1. If voltage drop 12.8V, 2.5A CC	Maintenance for big capacity
Maintenance	2. Go to Step 7 until voltage rise 14.8V	battery.

LED Indication:

Item	Indication	LED Colour
Power On Reset	All LED flash twice during self check.	ON = 0.5S OFF= 0.5S
Power On	No battery connected.	Alternating Red/Green
Charging	Step 1-6	RED steady
Full Charged and	Step 7-8	Green steady
Maintenance		
Error	Flashing with any of these conditions:	Orange (ON=0.5S, OFF=0.5S)
	1. Reverse battery connection	
	2. Charging been interrupted in Step 2 or 3, 6	
	3. 0.5V < Battery Voltage < 2.0V	
	4. Battery Voltage > 16V	

Specifications:

Input Voltage: 220-240VAC, 50/60HZ, 1.2A

Output: 2 x 12VDC, 4.0A

Output connectors: Large Alligator Battery Clips

Stand-By Power: <2W
Reverse Current: <5mA
Voltage Tolerance: ±0.2V

Current Tolerance: ±10% for 4.0A

±10% for 2.5A ±15% for 0.9A

Normal Battery Voltage: 2.0-14.8V

Charge Control Type: CC/CV, Float Charging for Backup Power

Cable Length:

Mains Power Plug to Unit: 2m
Unit to Battery Clamps: 1.8m

Dimensions: 178(W) x 139(D) x 50(H)mm

Weight: 2kg

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