

GENMini2 8A (4A/Bank)

12V 2 Bank On-Board Battery Charger

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GENMini2 TECHNICAL SPECIFICATIONS

- Battery Banks** 2
- Amps/Bank** 4A
- Total Amps** 8A
- Input Voltage AC** 110-120 VAC, 50-60Hz
- Working Voltage AC** 70-130 VAC, 50-60Hz
- Nominal Voltage** 12VDC x2
- Efficiency** 90%
- Charging Voltage** 14.4V
- Back Current Drain** <5mAh
- Ripple** <2%
- Charger Type** 8 Step, Fully Automatic, Switch-Mode
- Type of Batteries** 12V Lead-Acid
- Battery Chemistries** Wet, Gel, MF & AGM
- Battery Capacity** 20-120Ah; Maintains All Battery Sizes
- Housing Protection** IP 68
- Cooling** Natural Convection
- Output Leads (Length)** 6.3 Feet
- AC Cord (Length)** 6.0 Feet
- Dimensions (L x W x H)** 7.9 x 5.5 x 2.2 Inches
- Weight** 5.8 Pounds

*Meets ISO 8846 Marine standards and Ignition protected (US Coast Guard 33 CFR 183.410)

WHAT'S IN THE BOX

- GENMini2 Charger
- Owner's Manual & User Guide



CHARGING TIMES

The time required for the GENMini2 to charge a normally discharged battery is shown below. Deeply discharged batteries may take longer to charge depending on the depth of discharge (DOD). The charge time is based on an average depth of discharge to a fully charged battery.

BATTERY SIZE (Ah)	APPROXIMATE TIME TO CHARGE* (Hours)
20	2.5
30	3.7
40	5.0
50	6.2
60	7.5
70	8.7
80	10.0
90	11.2
100	12.5
110	13.7
120	15.0

Note: The above table is for reference purposes only. Actual data may differ due to battery conditions. The time required for the GENMini2 to charge a normally discharged battery is based on an average DOD of 50%.

CHARGING STEPS

Steps 1 & 2: Analyze & Diagnose

Checks the battery's initial condition, including voltage, state-of-charge and health, to determine if the battery is stable before charging.

Step 3: Recovery

Initializes the Recovery desulfation process (if needed) for deeply discharged or sulfated batteries by pulsing small amounts of current.

Step 4: Initialize

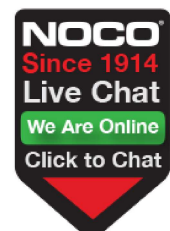
Starts the charging process with a gentle (soft) charge.

Step 5: Bulk

Begins the Bulk charging process based on the condition of the battery and returns 80% of the battery's capacity.

Step 6: Absorption

Brings the charge level to 90% by delivering small amounts of current to provide a safe, efficient charge. This limits battery gassing and is essential to prolonging battery life. Switches to a constant current charge rate to bring your batteries close to 90% charge.



Step 7: Optimization

Finalizes the charging process and brings the battery to maximum capacity. In this step, the charger utilizes multi-layered charging profiles to fully recapture capacity and optimize the specific gravity of the battery for increased run time and performance. The charger will switch to Maintenance if the battery tells the charger that more current is needed.

Step 8: Maintenance

Continuously monitors the battery to determine when a maintenance charge should be initiated. If the battery voltage falls below its target threshold, the charger will restart the Maintenance cycle until voltage reaches its optimal state and then discontinues the charge cycle. The cycle between Optimization and Maintenance is repeated indefinitely to keep the battery at full charge. The battery charger can be safely left connected indefinitely without the risk of overcharging.



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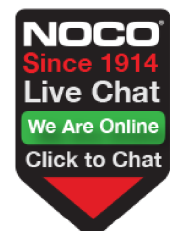
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