

CH3512 CH3524

Automatic Battery Charger User's Guide



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1. INTRODUCTION

Power Input

Voltage 100 ~ 240VAC (110 / 220VAC)

Frequency 50 / 60 Hz

DC Output

CH3512 Voltage 13.8 VDC / Current 5A

CH3524 Voltage 27.6 VDC / Current 3A

Charge Mode

Float

DC Voltage Regulator

< ± 1%

Efficiency

> 80% @ Full load

Contact Capacity

120VAC @ 0.5A

Protection

Current imitating protection

Short circuit protection, Reverse polarity protection

Dimensions 112.5mm L * 130mm W * 73mm H

Weight 0.74 kg ± 2%

2. INSTALLATION

- 2.1 Make sure you are using the correct battery charger.
- 2.2 Check for correct input voltage on the battery charger.
- 2.3 Connect power to lines L1 & L2.
- 2.4 The indicate LED marked "PL" on the panel should be illuminated when switch power on. The DC output voltage should be as follow:

Model CH3512 : 13.8 ± 0.2VDC

Model CH3524 : 27.6 ± 0.2VDC

- 2.5 With power off, connect output terminals " ± " to battery lead " ± ".

CAUTION !

Terminal lug must properly and securely crimp on to wires and avoid shorted.

- 2.6 When Power is ON check charge current LED bar. The current will decrease as the battery charges.
- 2.7 "0 A" indicates the battery is fully charged.
- 2.8 When battery voltage is less than 10VDC. The "Batt < 10V" LED will illuminated and the low voltage Charge Fail Alarm relay will energize.
- 2.9 Current limited circuits allow engine cranking and running in parallel with the charge alternator when needed.
- 2.10 Voltage sensing circuit automatically shut off the power when the battery is fully charged.

3. DANGER

- 3.1 Potentially lethal voltages are present inside. Do not open case and attempt any adjust or repair on this unit.
- 3.2 Ventilate batteries they generate explosive hydrogen gas. Always avoid flames and sparks near batteries. Avoid high humid or corrosive gases.
- 3.3 Minimum voltage on the battery must higher than 5VDC or the battery charger will automatically disconnect.
- 3.4 This is not a power supply. Use only for battery charging.

4. OUTLINE DRAWING

