

CH3612 & CH3624

Automatic Battery Charger User's Guide



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SECTION 1 : SPECIFICATION

Power Input

Voltage	100 – 277 Vac
Frequency	47 – 63 Hz

DC Output

CH3612	13.8 Vdc / 6A Max.
CH3624	27.6 Vdc / 3A Max.

DC Voltage Regulation

< +/- 1%

Charge Mode

Float

Efficiency

> 80% @ Full load

Low Battery Voltage Alarm Output Capacity

0.5A @ 40 Vdc

Suitable Battery Type

Gel, Flooded Lead Acid & AGM

SECTION 2 : INSTALLATION AND OPERATION

2.1 Make sure that the correct battery charger is selected for your battery.

2.2 Check correct line power for the battery charger.

2.3 Connect line voltage to the charger, then the “power indicator” should be lit up and display will show the output voltage and current, the DC output voltage be as follow :

CH3612 : 13.8 Vdc +/- 1%

CH3624 : 27.6 Vdc +/- 1%

2.4 AC power off before connect the charger DC output to battery leads “+ & -”.

Caution!! Crimp and property secure terminal lugs on to power wires to avoid shorts.

2.5 Turn on AC power, battery charger will charge the battery with an automatic adjusted current related to battery voltage and cyclically displays charging voltage and current on screen.

2.6 Floating charge mode with current-limiting function built-in. Charger can remains connected during engine cranking heavy load condition.

Protection

Constant output voltage, limited charge current reverse polarity & short circuit protections.

Environment

Operation Temperature	-20 – +60 °C
Storage Temperature	-30 – +80 °C
Relative Humidity	Max. 90%
Vibration	1.5 Gs @ 5 – 30 Hz 5.0 Gs @ 30 – 500 Hz

Mounting Type

Panel Mount or DIN Rail *¹

Dimensions

159.0 (L) x 112.0 (W) x 66.0 (H) mm

Weight

0.67 Kg +/- 2%

*¹ Optional DIN Rail Mounting Kit is sold separately

2.7 For CH3612, minimum battery voltage must higher than 6 Vdc or the battery charger will automatically shut-down and all the indicators on the panel will be went out. (For CH3624, the minimum battery voltage is 12 Vdc).

2.8 Voltage sensing circuit automatically stops charging battery when the battery is fully charged.

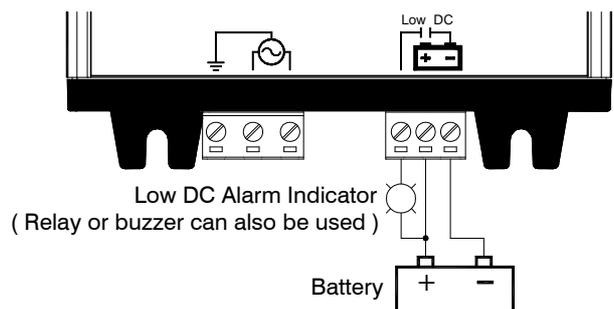
2.9 Input and output connection cable size \geq 1.25mm² (AWG 16).

SECTION 3 : LOW DC VOLTAGE ALARM

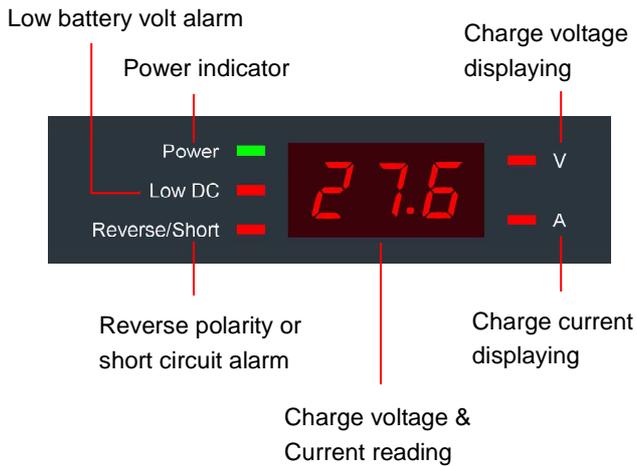
For CH3612 when battery volt less than 10 Vdc

For CH3624 when battery volt less than 20 Vdc

“ Low DC indicator ” will be lit up with solid state 0.5A battery negative alarm output.



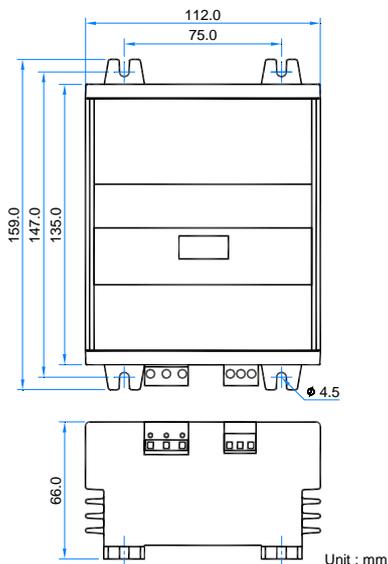
SECTION 4 : DISPLAY & ALARM INDICATORS



SECTION 5 : DANGER

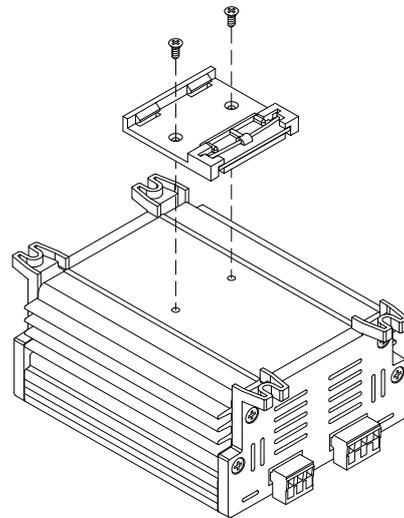
- 5.1 Charger has been completely tested and calibrated precisely, Potentially lethal voltages are present inside. Do not open case and attempt to adjust or repair this unit.
- 5.2 Ventilate battery enclosure, batteries generate explosive hydrogen gas.
- 5.3 Always avoid flames and sparks near batteries, avoid high humid or corrosive gases.
- 5.4 In case of detaching charger, turn the line power off first.
- 5.5 This is not a power supply. Use only as a battery charger.
- 5.6 Build-in AC power input protect fuse, no external fuse is needed. Do not attempt to replace it when blew.

SECTION 6 : OUTLINE / SIZE

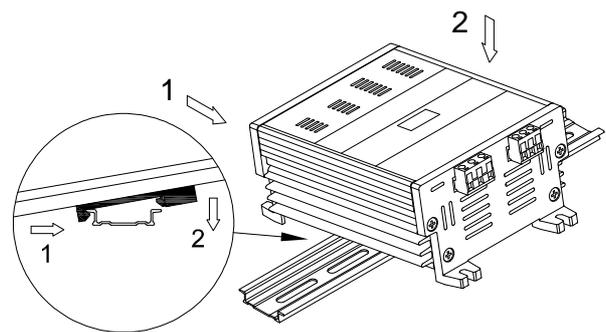


SECTION 7 : DIN Rail Kit Mounting

7.1 DIN Rail Accessory installation



7.2 Charger Installation



7.3 Dismount Charger

