AWILCO
AC/DC CHARGER 12VDC 15A

AW018150

USER MANUAL

Please be sure to read and save the entire manual before using the product.
Misuse may result in damage to the unit and/or cause harm or serious injury.

PLEASE KEEP THE MANUAL FOR FUTURE REFERENCE

SERVICE CONTACT INFORMATION

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SAFETY WARNINGS

Failure to follow these instructions may result in damage to the unit and could also result in serious injury to users. Always consult your licensed dealer/retailer for any repairs or spare parts services.

• This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

• Explosive gases may escape from the battery during charging so please ensure the battery is charged in a well ventilated area. NEVER operate in a closed-in or restricted area without adequate ventilation.

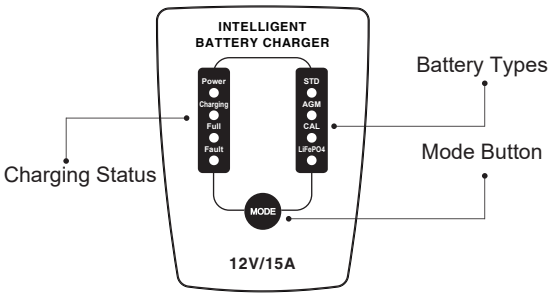
• This charger is designed for indoor use only and should never be exposed to rain, snow, etc. Never use an open flame or create sparks or smoke near a battery or charger during charging operation as this may cause an explosion and explosive gases.

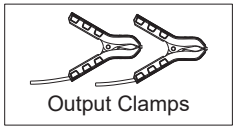
• This charger is designed for charging 12V battery only. Do not attempt to charge damaged battery, frozen battery or non rechargeable battery as that can risk the battery catching fire or possible explosion. Also do not attempt to use the charger if the cables or plugs are damaged. Do not charge the battery while the engine is operating.

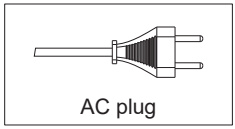
• When working with lead-acid batteries, remove personal metal items such as rings, bracelets, Necklaces to make sure you do not short circuit the battery terminals with any type of metal tool, which will cause an explosion.

• When disconnecting the battery charger, please pull by the plug head not by the cord. The force pulling the cord may cause damage to cord or plug. Unplug the charger from the mains before breaking or making the connection to the battery.

MAIN FEATURES







Main features to note:

• Compatible with most 12V lead-acid battery, including STD, AGM, and Calcium, the charger set with BMS Wake-up is also suitable to charge LiFePO4 battery.

• Applying advanced technology to optimize the charging and increase the power efficiency.

• Programmed with intelligent charging stages to fully automatically charge your battery without worries of over-charging, which benefits state of health for battery.

• Set with reverse polarity protection, short-circuit protection and temp protection.

• Temperature Compensation by attached temp sensor.

BATTERY CHARGING

1. Connecting the charger to the battery.

The charger's output leads have red and black battery clamps (RED-POSITIVE and BLACK- NEGTIVE). Determine which post of battery is grounded (connected) to the chassis.

For batteries mounted inside a vehicle.

Ⅰ. Connect the red clamp to the battery's positive pole.

Ⅱ. Connect the black clamp to the vehicle chassis, away from the fuel pipe and the battery.

Ⅲ. Connect the charger to the wall socket.

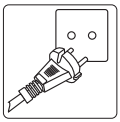
Some vehicles may have positively earthed batteries.

Ⅰ. Connect the black clamp to the battery's negative pole.

Ⅱ. Connect the black clamp to the vehicle chassis, away from the fuel pipe and the battery.

Ⅲ. Connect the charger to the wall socket.

Note: You can attach the charger vertically on the wall by the hanging hole on the back of charger.



2. Connect the charger to AC power socket, then the POWER LED is light on.

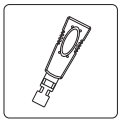
3. Press the button to select charging program.

Settings are made by pressing the “MODE-button” and stepping forward by pressing the button one step at a time, releasing the button when it steps to required mode.

4. Stop charging at any time by pressing Mode button to get back to standby mode.When disconnecting the charger, please disconnect AC cord first, remove clamp from vehicle chassis, and then remove clamp from battery terminal. Do not charge the battery while the engine is operating.

5. Memory Function

This charger has memory function. When the charger is connected next time, It will continue to charge on the mode you chose last time.



6. Temperature Compensation

Place the temperature sensor close to the output clamp. When charging STD, AGM, or Calcium battery, the temperature sensor works automatically and will adjust the max voltage according to the ambient temperature.

LED INDICATION & TROUBLE-SHOOTING

LED Light					Status
Power LED	Charging	Full	Fault	STD/AGM/ CAL/LiFePO4	
on	off	off	off	off	Powered on, on Standby Mode
on	**on**	off	off	**on**	Charging the battery.
on	off	**on**	off	**on**	Float-charging the battery
on	off	off	**on**	**on**	Reverse polarity/ short-circuit and over temperature fault

Fault	Charger Status	Solution
Reverse Polarity	Fault LED light on, Stop output	Disconnect the clamps and and correctly reconnect them again. The charger will be back to Standby Mode
Short-circuit	Fault LED light on, Stop output	
Over temperature	Fault LED light on, Stop output	Disconnect the plug and clamps for cooling the device and when the temp is normal, reconnect the charger.

SPECIFICATION

Model No.	01.81.150
Input Voltage	220-240V, 50Hz
Charging Current	12V/15A
Battery Type	STD, AGM, CAL, LiFePO4
Max. Voltage	STD-14.4V. AGM-14.7V. CAL-15.5V. LiFePO4-14.4V
BMS-Wake up	Yes
Standby Power Consumption	3.8W
Back Current	0.7mA
Accuracy	±0.2V
Efficiency	>90%
IP Rate	IP20
Working Temp	-25°C~45°C
Size:	217x108x62mm

CARE AND MAINTENANCE

With only minimal maintenance, this Battery Charger will deliver years of dependable service. Follow these simple steps to maintain the charger in optimum condition: After each use, clean the battery charger clamps - be sure to remove any battery fluid that will cause corrosion of the copper clamps. Clean the outside case of the charger with a soft cloth and, if necessary, mild soap solution. Keep the charger cords loosely coiled during storage to prevent damage to the cords. Do not use the charger if cords or clamps have been damaged in any way. If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or qualified person in order to avoid a hazard.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