

Owner's Manual



FY-150A-12H



The equipment is approved by following car manufacturers(China)



INSTRUCTION

Note!

This manual contains safety and operating instructions. Read it carefully before using or servicing the device. Do not neglect to do this as improper handling may result in personal injury and damage to the device.

The safety precautions are printed on the top panel of the device. Make sure the device is to be used under right circumstances and conditions. Otherwise, it may damage the charger or devices connected to the charger, and injury to persons.

Charging produces flammable gases. During the charge, the battery must be placed in a well ventilated area. Avoid flames and sparks.

To maintain the factory original performance of your device, use only manufacturer's suggested replacement parts. Model and serial number required when ordering parts from your local distributor.

Do not use the charge if it has been dropped or damaged. Make sure the exterior appearance is in good condition without any obvious damages, to avoid short circuit and other problems caused by damage to the internal components.

The charger is designed for charging rechargeable batteries only. Do not use to charge small batteries or non rechargeable batteries, otherwise it may cause the battery and charger damage or even explosion. In case of the battery acid contact with the eyes or skin, rinse well with water and see a doctor as soon as possible.

Caution!

Risk for electrical shock ! All electrical connections must be made by a qualified electrician. Make sure that the facility supply voltage and frequency are the same as shown on the charger name plate. Make sure the supply cable also meets the specifications of the charger unit.

Make sure the red clamp to the (+) and black clamp to the (-) of the battery.

Keep the charger clean.

Frequently inspect all power cables for damage or bare wiring. Replace cable immediately if damaged.

Turn off the charger and disconnect the charger from the mains when not in use.

Disconnect input power supply before installing, checking, cleaning or changing parts.

Only qualified persons should install, operate, maintain and repair this charger. Consult the manufacturer or supplier before servicing.

Keep charger as far away from children as practical. Properly install and ground this equipment. Electric shock can kill.

To prevent dangers and accidents, a person to keep an eye on the device and battery during the whole charging process is strictly required. Do not place or operate the charger near water, in wet locations or outdoors.

Note:

1. Fully use the length of charging cables to keep the charger away from the battery when connecting the charger to the battery.

2. Never place the charger on top of a battery.

3. Keep well-ventilated and dry condition.

4. Make sure the power supply and charging clamps is properly connected.

5. Press Start/Stop button and disconnect the clamps to stop the charger during charging process. Do not disconnect the power by simply unplugging the charger.

After charging, disconnect the charger from the mains, then disconnect the clamps from the car body and then disconnect the clamp from the battery, in the indicated order.

6. It will take a longer time for the battery to be fully charged as there will be a relatively longer time for floating charge.

7. Never attempt to charge a damaged or short-circuited battery.

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Work Mode Instruction:

Before turning on the charger, make sure that the supply voltage, power plug size meet the requirements of the specification of the charger, and batteries are in good condition. Work mode must be selected and operated correctly.

1) Charge Mode: Suitable for charging battery under normal condition. Battery jump-starting and recovery will be required for those in long-time idle or severe power loss condition. Select different charge mode based on inside or outside the car, so the charger will charge a little bit differently. Battery type is selected for varied supply powers and current. Proper selection can ensure better charging and battery maintenance.

2) Programming Mode: This mode enables to use the charger as a powerful stabilized power supply with regulated voltage when car programming or decoding. To avoid voltage instability caused by charging, the battery has to be fully charged before using this mode. The voltage regulation can be adjusted from 12V to 14.8V. It should be noted that the load capacity of the charger is limited. Stable power supply ensures better programming and decoding.

3) Showroom Mode: Suitable for cars on shows for long term, to avoid malfunction or even damage in critical time due to low power. This mode charges batteries with low current to ensure long-time full charge and protect battery.

4) Hidden Recovery Mode: This mode indicates recovery message to users based on battery condition. Users can choose recovery to operate as prompted.

Battery Alarm Instruction:

1) Clamps' Poor Contact Alarm. If alarm remains when the charging clamps connect normally and the battery voltage is higher than 5V, remove the clamp on the battery, reconnect it after cleaning the battery electrode. If it doesn't work, press OK key for several seconds, select charging as prompted. Contact after-sales while there is no voltage for hours.

2) Overheat Alarm. Take off charging clamps, keep the charging on and wait for a while for the inner fan cooling. Alarm stops and interface is back to normal page when temperature decreases. Do not use the charger and contact after-sales if there is overheat alarm at the moment of charger turning on.

3) Overcurrent Alarm. It is likely because of batteries' low power or sudden loading increase during charge. Adjust the power into 12V on programming mode for low power. Shift to normal charge as current less than 8A.

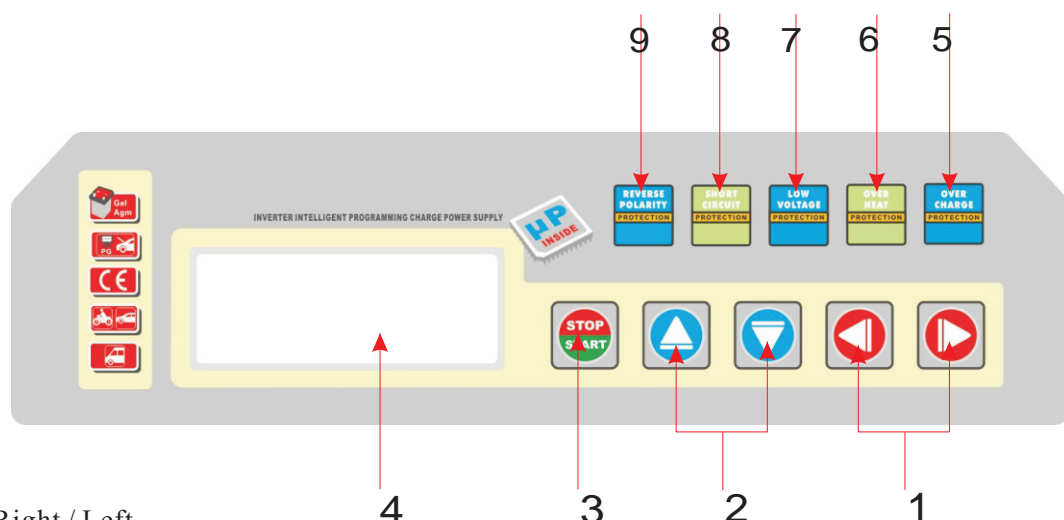
4) Reverse Polarity Alarm. Ensure normal connection of charging clamps.

5) Damaged Battery Alarm. Replace batteries.

6) Full Charge Alarm. It is a prompt for charge finishing. If charging period is short, and battery voltage decreases rapidly for cars, the battery is broken and should be replaced.

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Operation panel is as follows:



- 1 Right / Left
- 2 Up / Down
- 3 Switch
- 4 Monitor
- 5 Over Charge Protection
- 6 Over Heat Protection
- 7 Low Voltage Protection
- 8 Short Circuit Protection
- 9 Revert Polarity Protection

Chinese and English switching:
STOPKEY+RIGHTKEY+LEFTKEY!

Overcharge Protection: In the charging process, the machine will constantly detect the battery state to see whether the charging is finished to prevent damage from overcharging.

Overheat Protection: It will automatically stop charging when the machine is overheat. The inner cooling fan works and alarms.

Low Voltage Protection: When the input voltage is lower than required, the charger stops working for protection.

Short Circuit Protection: The charger stops working and alarms when battery is damaged or Internal part short circuit.

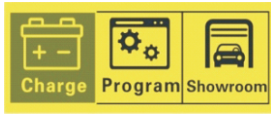
Reverse Polarity Protection: The LCD displays and alarms when the connections of charging clamps are reversed.

ON/OFF: If the charging clamp is in poor contact, press the key for a while to enter the jump start mode. Use left and right keys to switch options, up and down keys to choose the previous step and the next step. Press the START / STOP button to start and halt during charge.

When adjust the programming voltage, you can select the adjustable mode, then press right and down buttons at the same time. Use the up and down keys to set voltage after hearing the alarm. After setting, press the right and down keys again to logout, then press ON to start.

Operation Instruction

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Choose a charge mode.



Choose charging battery in vehicle or taking out (separated) from the vehicle is available



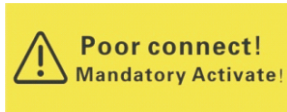
Choose a battery type: Regular, AGM or GEL.

Note: An appropriate battery type must be selected, otherwise it may cause battery damage and other problems.

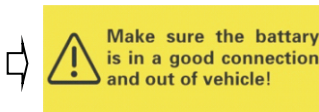


Choose regular or FEB battery

Note: An appropriate battery type must be selected, otherwise it may cause battery damage and other problems. FEB battery must be taken out (separated) from the car for charging battery.



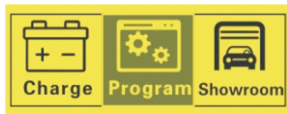
When charging doesn't work, press and hold the START/STOP button for activation.



Red clamp to the (+) and black clamp to the (-) of the battery. Make sure they are well-connected. The battery must be taken out and kept far away from the car for battery recovery. A person to keep an eye on is required.



Showing charge voltage and current in the status of battery recovery.



Choose the mode for Programming.



Adjustable mode or fixed mode is available for choosing.



Adjustable mode or fixed mode is available for choosing.

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Technical Data

Item	Unit	FY-150A-12H
Input Voltage	V	220-240V
Rate	Hz	50/60
Input Power	W	1800W
MAX	RMS	150A
Charging Voltage	v	12
Programming Mode	PG VA	2-14.8V/2-150A
MAH	Ah	10-1800
Demension	cm	43×35×14
Weight	Kg	8. 6

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