

LAUNCH

USER'S MANUAL

PFP-100



LAUNCH TECH CO.,LTD.

www.cnlaunch.com

NOTE:

- Carefully read the user manual before using, and keep it well for future reference.
- Carefully check the device parts list before using. For any doubt, contact Launch distributor immediately.
- Due to the product upgrade, tiny difference between the user manual and the device will not be further noticed. Take the device as standard.

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Launch is not responsible for device damage or problem due to the usage of any optional parts or consumables instead of Launch original products or Launch recognized products.

Declaration: Other product names mentioned in the user manual are aimed to describe the device usage. The registered trademarks still belong to the original company.

The device is for professional technicians or maintenance and repair personnel.

Registered Trademark

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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.
8. Charging only someone attended and strictly object the instruction.

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.

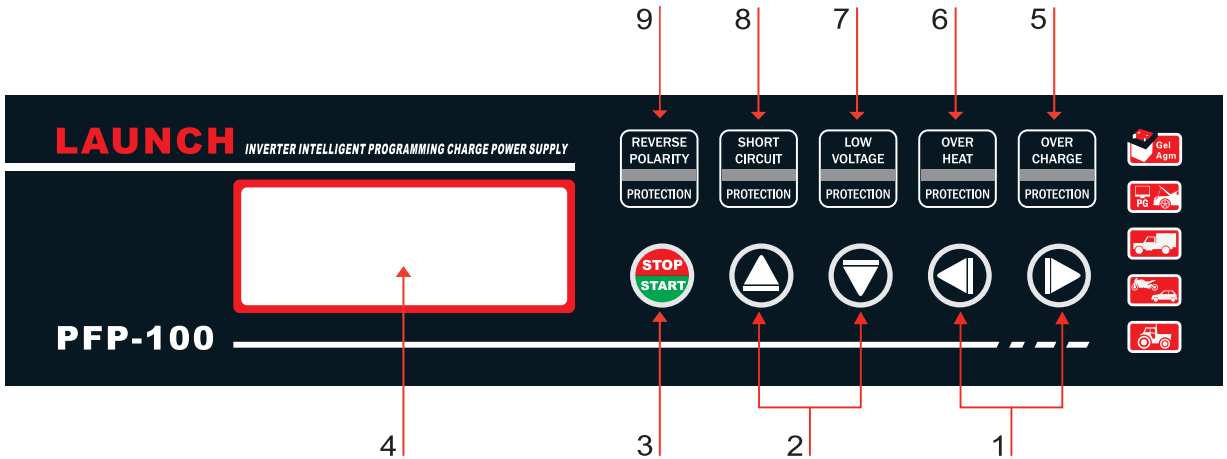
- 1) Charge Mode: Suitable for charging battery under normal condition. Battery jump-starting and recovery will be required for those in long-time idle or severe power loss condition. Select different charge mode based on inside or outside the car, so the charger will charge a little bit differently. 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) Over current 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.

Please strictly follow the instruction of user manual and chargers' guidance. If any problems occur due to wrong operation, please take the corresponding responsibility by yourself, our company will not bear all the consequences caused by wrong operation.

OPERATION PANEL IS AS FOLLOWS:



1. Right / Left

2. Up / Down

3. Switch

4. Monitor

5. Overcharge Protection

6. Overheat Protection

7. Low Voltage Protection

8. Short Circuit Protection

9. Revert Polarity Protection

Chinese and English switching:

STOPKEY+RIGHTKEY+LEFTKEY

OVERCHARGE PROTECTION:

the machine will constantly detect the battery state to prevent damage from overcharging in the charging process.

OVERHEAT PROTECTION:

It will automatically stop charging when the machine is overheated. The internal fan starts to works.

LOW VOLTAGE PROTECTION:

When the input voltage is lower than required, the machine will not work.

SHORT CIRCUIT PROTECTION:

The machine will not work and alarm when internal part short circuit.

REVERT POLARITY PROTECTION:

The LCD displays if the battery clip is reversed.

ON/OFF:

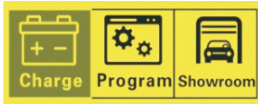
If the charging clamp is in bad contact, press the key to enter the forced start mode.

Press left and right keys to switch options, up and down keys to the previous step and the next step. Press the start stop button to start or stop the machine.

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

OPERATION PROCEDURE:

The machine will automatically adjust the charging voltage and current during charging process.



Choose a charge mode



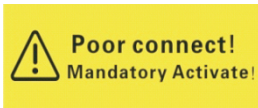
Choose charging battery in vehicle or taking out (separated) from the vehicle is available



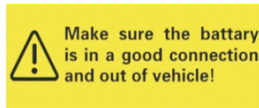
Choose a battery type: Regular, AGM or GEL
Note: An appropriate battery type must be selected, otherwise it may cause battery damage and other problems



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



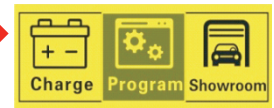
When charging doesn't work, press and hold the START/STOP button for activation



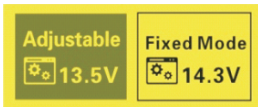
Red clamp to the (+) and black clamp to the (-) of the battery. Make sure they are well-connected. The battery must be taken out and kept far away from the car for battery recovery. A person to keep an eye on is required



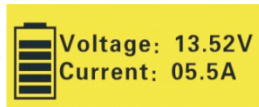
Showing charge voltage and current in the status of battery recovery



Choose the mode for Programming



Adjustable mode or fixed mode is available for choosing



Adjustable mode or fixed mode is available for choosing

Key Tips 1: Must be installed on the socket with leakage protector!

Key Tips 2: Must follow the user manual and charger's guidance to operate!

Key Tips 3: Charger must be detected and maintained by professionals!

Key Tips 4: Must choose the proper battery type among regular, AGM and GEL, in case of potential loss such as battery damage and vehicle damage.

Key Tips 5: EFB battery and vehicle must be apart during charge process, in case of vehicle damage!

Key Tips 6: Battery must be away from vehicle during recovery process, in case of vehicle damage!

Key Tips 7: Attention! This charger can not replace battery completely. Backup battery must be connected during battery replacement!

Note: This charger should not be used as a substitute for battery, If it is necessary to replace battery, a spare battery must be connected

SPECIFICATION DATA

| Item | Unit | Item | Unit |
|------------------|-----------|------------------|--------------|
| Input Voltage | 110V/220V | Programming mode | 2~16V/2~100A |
| Rate | 50/60Hz | MAH | 10~1200Ah |
| Input Power | 1200W | Demension | 43×35×14CM |
| MAX | 100A RMS | Weight | 7.7Kg |
| Charging Voltage | 12V | | |

Key Tips: Must choose the proper battery type among regular, AGM and GEL, in case of potential loss such as battery damage and vehicle damage.

Key Tips: EFB battery and vehicle must be apart during charge process, in case of vehicle damage!

Key Tips: Battery must be away from vehicle during recovery process in case of vehicle damage!

Key Tips: Attention! This charger can not replace battery completely. Backup battery must be connected during battery replacement!

Battery charge must be attended by somebody in case of danger!

Please strictly follow the instruction of user manual and chargers' guidance. If any problems occur due to wrong operation, please take the corresponding responsibility by yourself, our company will not bear all the consequences caused by wrong operation.

Warranty Clause

The warranty clause is only applicable to users and distributors who purchased Launch products via the regular process.

Within 1 year since the delivery, Launch guarantee the products damaged due to the material or craft defects. Any damage to the device or part due to abuse, unauthorized change, usage other than designed to, operation not following the user manual, etc. is out of the warranty compensation for the auto instrument damage due to the device defect is limited to repair or replacement, Launch is not responsible for any indirect or accidental loss. Launch will clarify the device damage according to the specified test method. Any distributor, employee and business representative of Launch are not entitled to do any confirmation, presentation or promise related to Launch products.

Statement of Disclaimer

The above warranty clause can substitute for any other form of warranty clauses.

Purchase Order

Replaceable parts and optional parts are available from Launch authorized suppliers. Purchase order should include:

- Order quantity
- Part number
- Part name

Customer Service Center

Any question during the operation, please call +86-755-84528888

For maintenance and repair, please send back to Launch with Warranty Card, Product Qualified Card, Purchase Invoice and problem description. Launch will maintain and repair the device for free when it is within the warranty. Otherwise, Launch will charge the maintenance and repair and the shipping.

LAUNCH address:

Shenzhen Launch Tech Co., Ltd,

Launch Industrial Park, North of Wuhe Avenue. Banxuegang, Longgang District, Shenzhen, P.R.China

Receiver: Customer Service Center Postcode: 518129

Launch website: <http://www.cnlaunch.com> / <http://www.x431.com>