



|                                                       |                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 说明书材质要求: 105g 有光铜版纸                                   | 说明书成品尺寸: 105x143mm                                                                             |
| 第一: 专色+CMYK油墨要求:<br>1.K色油墨: 洒联黑墨                      | 第二: 特别注意:<br>暂无                                                                                |
|                                                       |  Black (单色印刷) |
| 折叠方式: 风琴折 (20P 以下<br>用风琴折)<br>特殊情况: 16P/20P: 风琴折 + 对折 | 备注:                                                                                            |

**特别注意: 此页内容不印刷**

风琴折 + 对折 页面顺序

16P 页面顺序

|    |    |    |    |
|----|----|----|----|
| 9  | 10 | 11 | 封面 |
| 12 | 13 | 14 | 封底 |

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

20P 页面顺序

|    |    |    |    |    |
|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 封面 |
| 15 | 16 | 17 | 18 | 封底 |

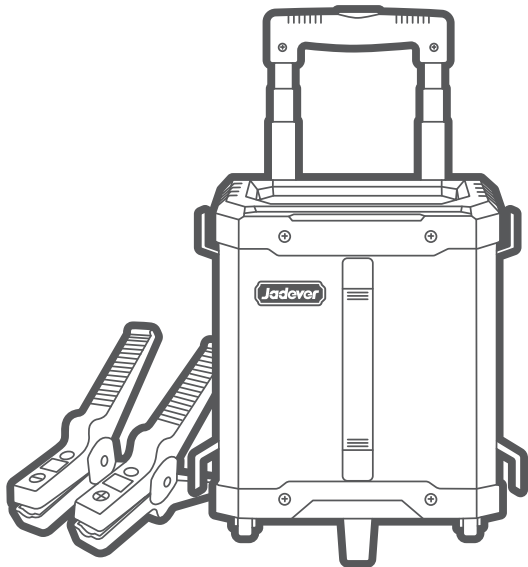
  

|   |   |   |   |    |
|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5  |
| 6 | 7 | 8 | 9 | 10 |

|      |                |           |     |               |           |      |  |
|------|----------------|-----------|-----|---------------|-----------|------|--|
| 更改记录 | 1. 互转WDZ1A52-1 |           |     | 1. 互转UWBY1A50 |           |      |  |
|      | 0823.J01       | 2023.8.10 | ZRR | 0524.J02      | 2024.5.16 | Oona |  |
|      | 版本号            | 日期        | 设计师 | 版本号           | 日期        | 设计师  |  |

# **Jadever**

## **INVERTER BATTERY CHARGER**



**JDBY1A50 UJDBY1A50**

**PRODUCT  
MANUAL**



## GENERAL SAFETY WARNINGS

### Important safety instructions

1. SAVE THESE INSTRUCTIONS. This manual contains important safety and operating instructions. You may need to refer to these instructions at a later date.
2. **⚠ CAUTION!** To reduce risk of injury, charge only wet cell, lead-acid, automotive type rechargeable batteries. Other types of batteries may burst causing personal injury and property damage.
3. Do not expose charger to rain or snow.
4. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
7. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
  - a) That pins on plug of extension cord are the same number, size, and shape as those of plug on charger;
  - b) That extension cord is properly wired and in good electrical condition; and  
If the length of the extension cord is less than 25 feet, use an 18AWG cord, If 50 feet – 16AWG, 100 feet -16AWG, 150 feet - 14AWG.
8. Do not operate charger with damaged cord or plug, replace the cord or plug immediately.
9. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
10. Do not disassemble charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
11. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
12. **⚠ WARNING - RISK OF EXPLOSIVE GASES**
  - a) WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL

BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT EACH TIME BEFORE USING YOUR CHARGER, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

- b) To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.

### **13. Personal precautions**

- a) Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.
- b) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- c) Wear complete eye protection, and clothing protection. Avoid touching eyes while working near battery.
- d) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enter eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- e) NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- f) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short circuit battery or other electrical part that may cause explosion.
- g) Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short circuit current high enough to weld a ring or the like to metal, causing a severe burn.
- h) Use charger for charging a LEAD-ACID battery only. It is not intended to supply power to a low-voltage electrical system other than in a starter motor application. Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.
- i) NEVER charge a frozen battery.

### **14. Preparing to charge**

- a) If necessary to remove battery from vehicle to charge, always remove the grounded terminal from battery first. Make sure all accessories in the

vehicle are off, so as not to cause an arc.

- b) Be sure area around battery is well ventilated while battery is being charged. Gas can be forcefully blown away by using a piece of cardboard or other non-metallic material as a fan.
- c) Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- d) Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. This helps purge excessive gas from cells. Do not overfill. For a battery without cell caps, carefully follow manufacturer's recharging instructions.
- e) Study all the battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge.
- f) Determine voltage of battery by referring to car owner's manual and make sure that output voltage selector switch is set at correct voltage.
- g) If charger has adjustable charge rate, charge battery initially at lowest rate.

15. **Charger location**

- a) Locate charger as far away from battery as dc cables permit.
- b) Never place charger directly above battery being charged; gases from battery will corrode and damage charger.
- c) Never allow battery acid to drip on charger when reading gravity or filling battery.
- d) Do not operate charger in a closed-in area, or restrict ventilation in any way.
- e) Do not set a battery on top of charger.

16. **DC connection precautions**

- a) Connect and disconnect dc output clips only after setting any charger switches to off position and removing ac cord from electric outlet. Never allow clips to touch each other.
- b) Attach clips to battery posts and twist or rock back and forth several times to make a good connection. This tends to keep the clips from slipping off terminals and helps to reduce risk of sparking.

**THE SYMBOLS IN INSTRUCTION MANUAL**

Please read the instruction manual carefully before using.



The anode and cathode of battery.

## ADDITIONAL SAFETY WARNING

Original Instructions Safety Instructions.

The purpose of these safety regulations is to assure the safety operations of the charger machine and prevent the damage of the property and the physical injury.

The safety issues have been fully considered during the design and manufacturing of the charger. Thus, the user shall read these safety rules carefully before using the charger.

The operation of the charger contains some dangerous factors and the operator shall strictly follow the correct operation procedures. In order to avoid the grievous bodily injuries, the operator shall strictly observe the following rules:

Non-related people shall not get into the site of the charging operations;

The charger shall be installed, operated and maintained by the professional or people with the relevant experience.

The charging operation shall be done by the people who are familiar with the related safety operation technology.

The charger shall not be used for the purpose other than charging.

The input voltage shall be in conformity with the rated voltage described on the name plate;

The charger shall be placed on the plane surface. If it is placed on tilted surface, measures shall be taken to prevent it from falling. In order to prevent the occurrence of fire, the user shall observe the following rules:

The cables for charging shall be fully insulated.

The accumulated dust may cause the deterioration of the insulation performance.

Thus, the regular maintenance and repairing of the charger will be necessary.

**Danger!** In order to prevent the electric shock, the following rules shall be observed:

Touching the electrified body may cause death from electric shock.

Please don't contact the electrified parts.

The charger should be grounded by the technician in accordance with the related requirements before the charger is used.

Turn off and plug out the power for installing or repairing.

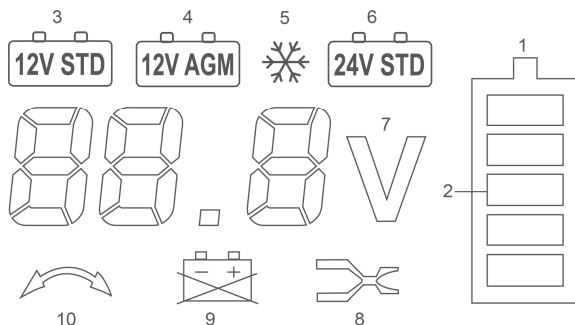
Please don't use the cables with insufficient capacity, damaged insulation.

Please don't operate the charger if the casing of the charger is dismantled.

The power must be turn off after the charging operation is finished.

Please don't operate the charger in rain or humidity place.

## SPECIFICATIONS



1. Battery box
2. Display bars of the battery power
3. 12V STD symbol
4. 12V AGM symbol
5. (Indicating winter) symbol
6. 24V STD symbol
7. V--Voltage units symbol
8. Output short circuit or No connection symbol
9. Failure battery or bad battery symbol
10. Polarity reverse connection (bad connection or wrong polarity) symbol

## Technical specifications

| Model No.            | JDBY1A50                                                                                                                                        | UJDBY1A50                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Input voltage        | single Phase, 220-240V~ AC±10%                                                                                                                  | single Phase, 110-120V~ AC±10%                                                                                                                  |
| Frequency            | 50/60                                                                                                                                           | 50/60                                                                                                                                           |
| Output current       | 5A~50A for 12V (Startup current:<br>300A/7.2V, 5S time)<br>20Ah~750Ah<br>5A~50A for 24V (Startup current:<br>300A/14.4V, 5S time)<br>20Ah~750Ah | 5A~50A for 12V (Startup current:<br>300A/7.2V, 5S time)<br>20Ah~750Ah<br>5A~50A for 24V (Startup current:<br>300A/14.4V, 5S time)<br>20Ah~750Ah |
| Rated output voltage | 12/24V                                                                                                                                          | 12/24V                                                                                                                                          |
| Size                 | 370×345×207mm                                                                                                                                   | 370×345×207mm                                                                                                                                   |
| Weight               | 5.0kg                                                                                                                                           | 5.0kg                                                                                                                                           |

## OPERATION

- There are several charging modes. Some modes can be changed into the winter mode (❄) when you push the mode button another time the snow flake icon appears. The winter mode is used to charging of battery in low temperatures.
- Has eight modes, that is six charging modes (12V STD, 12V STD+❄, 12V AGM, 12V AGM+❄, 24V STD, 24V STD+❄) and two (high current) Start modes. The STD and AGM are different battery types.
- According to the need of the high current start charging work, the High current start mode can be selected by using the High Current Start Mode Selection Key. Under 220-240V~ input supply and 12V charging mode, the output start current may be 300 amps (7.2V) Under 220-240V input supply and 24V charging mode, the output start current may be 300 amps (14.4V). High Current Start function is used for quick start-up and charging of batteries for transportation equipment such as automobiles and motorcycles. The working time is 5 seconds. After 180 seconds, the working of the High Current Start can be done once again.
- According to the need of charging current, the charging current can be adjusted by using the current reduction or increase selection key. Under 220-240V~ input supply and 12V charging mode, the output current range of the charger is 5~50 amps. Under 220-240V~ input supply and 24V charging mode, the output current range of the charger is 5~50 amps. The charger can change 5 amps current value while pressing a current reduction or increase selection key. The initial current is 5 A when the power supply of the charger is turn on.
- According to the need of charging work, the charging mode can be selected by using the mode selection key.

### Using method of charger

- A. Under charger is not connected to battery.
1. Connect the charger to 220-240V~, 50/60Hz power supply.
  2. Turn on the power switch.

### NOTE

**No power switch on the charger.**

3. First, display the tested 0.0V voltage of the battery. At the same time, the battery symbol box flashes, and the battery display bars are not shown. This state is called initial status.
4. Second, after pressing the MODE-button, the control process enters to 12V STD mode. At the same time, the testing process will start. If the MODE-button is not pressed down once again, the 12V STD mode will continue. If the MODE-button is pressed down once again, the control process will enter to 12V STD+ mode. Other mode, for example, 12V AGM, 12V AGM+, 24V STD, 24V STD+) need to be selected by using the MODE-button.

### Abnormal conditions

If the mode to be selected is one of the four modes of 12V STD, 12V STD+, 12V AGM, 12V AGM+, under this condition, if the battery is connected by the use, and the tested voltage is greater than 15.6V, the control process will automatically enter to the 24V STD mode.

- B. Under charger is connected to battery
  1. Connect the charger to the battery. Connect the positive pole of battery to output (+) (red clamp) of the charger. Connect the Negative pole of battery to Output (-) (black clamp) of the charger.
  2. Connect the charger to 220-240V~, 50/60Hz power supply.
  3. Turn on the power switch.

### NOTE

#### No power switch on the charger.

4. First, display the tested voltage of the battery. At the same time, the battery symbol box flashes, and the battery display bars are not shown.
5. Second, after pressing the operation button. If the tested voltage is greater than 15.6V, the control process enters to 24V STD mode. If the MODE-button is not pressed down once again, the 24V STD mode will continue. If the MODE-button is pressed down once again, the control process will enter to 24V STD+ mode.

If the tested voltage is less than 15.6V, the control process enters to 12V STD mode. If the MODE-button is not pressed down once again, the 12V STD mode

will continue. If the MODE-button is pressed down once again, the control process will enter to 12V STD+ mode. Other mode, for example, 12V AGM, 12V AGM+ need to be selected by using the MODE-button.

6. High Current Start function is used for quick start-up and charging of batteries for transportation equipment such as automobiles and motorcycles. This function can be used when the battery is seriously out of power.
7. The charger has the automatic protection functions of output short circuit or No connection, polarity reverse connection (bad connection or wrong polarity), over-heat. When overheat occurs, the charging current decreases rapidly, the charging control process will be done with a small current.
8. Under charging modes, if the outputs of the charger are short circuit or no connection, the 8 symbol is displayed.
9. Under charging modes, if the tested battery is bad, the 9 symbol is displayed.
10. Under 12V STD, 12V STD+ , 12V AGM, 12V AGM+, 24V STD, 24V STD + and initial status, if the polarity connection between the charger and the battery is reversed or wrong, the 10 symbol is displayed.

## MAINTENANCE&MALFUNCTIONS

Only qualified persons should service this equipment. Protect yourself and others from possible serious injury or death.

### Basic troubleshooting

| Problem                              | Cause                                | Solution               |
|--------------------------------------|--------------------------------------|------------------------|
| Charger does not work                | Power source switch is out of order. | Change switch          |
|                                      | Power source is out of order         | Check power source     |
| The charger is operated, no charging | Connection is out of order           | Check connection       |
|                                      | The control PCB is out of order      | Change the control PCB |
| The button can-not be selected       | The button is out of order           | Check this button      |
|                                      | The control PCB is out of order      | Change the control PCB |

#### NOTE

**Disconnect input power before servicing. Do not touch electrically live parts.**

- Check charger's cables. Repair or replace the worn-out charging cables.
- Clean charging terminals.

#### NOTE

**The above recommended maintenance is indicative according to our general experience, these may vary from the conditions of the charging site.**



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