

DEMUDA

DC-30/DC-35

All-in-One Intelligent Charger (User Manual)

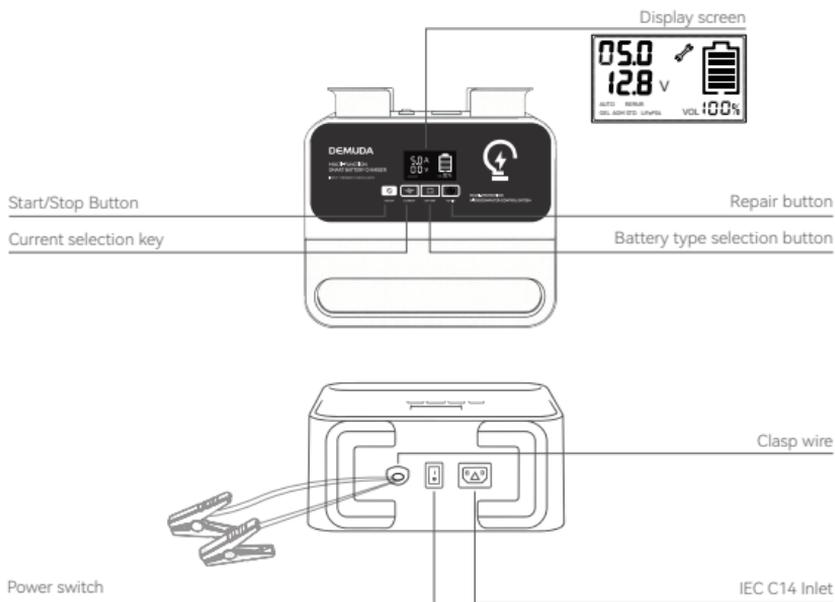


! Please Read This User Manual Carefully Before Installation And Use.

Declaration

Prohibit unauthorized copying and plagiarism
This information may be subject to change.
No further notice will be given.

1.Product Description

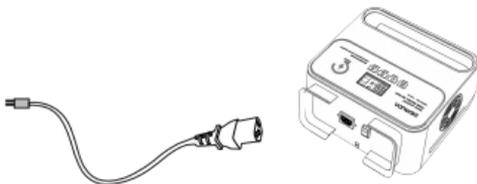


5.0A	Current display 5.0A
12.8v	Voltage display: 12.8V
	Battery level display

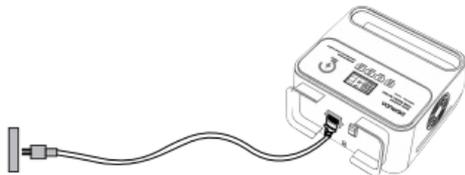
FUL	Full of hints
OFF	Fully charged stop prompt
GEL AGM STD	Lead-acid battery mode: GEL, AGM, STD
LiFeP04	Lithium iron phosphate battery mode
REPAIR + Flashing display of the "🔧" symbol	When the battery type is set to GEL AGM STD mode, this function is the battery repair mode. If the battery type is set to LiFeP04 mode, this function is the lithium battery activation mode.

2. Instructions for Use

- 1: Connect the power cord to the device's IEC C14 inlet.



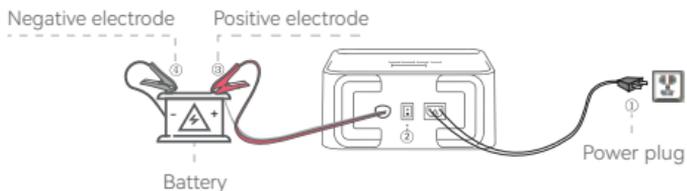
- 2: Connect the power plug to the mains power supply (Note: 110V models are connected to 110V power grid, 220V models are connected to 220V power grid)



- 3: Turn the power switch to "1". At this point, the LCD display will light up and make a flashing display.



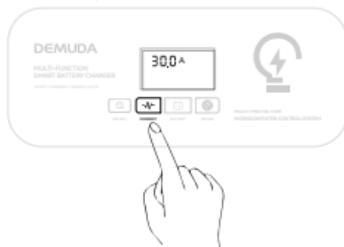
- 4: Connect the red clip wire of the charger to the "+" terminal of the battery, and the black clip wire to the "-" terminal of the battery. At this point, the machine will automatically detect the battery voltage and capacity, and display the results on the screen.



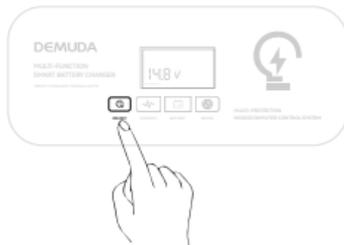
- 5: Based on the battery type you need to charge, press the "Battery type selection button" to select the appropriate battery type.
Two options are available: GEL AGM STD/LiFePO4.



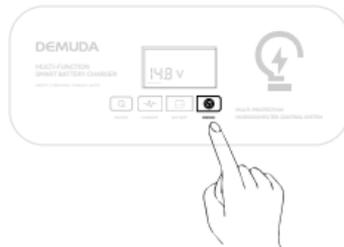
- 6: According to the battery capacity, select the appropriate charging current level by pressing the "Current Selection" key.



- 7: Press the "Start/Stop button" to start charging.
(Press this button to exit charging during charging)



- 8: Repair mode. Long press the button for 5 seconds to enter. Press the start/stop button to exit the function. When the battery type is set to lead-acid battery (GELAGM STD) mode, this function is the battery repair mode. It can be used to repair some severely discharged or sulfated batteries. The repair duration is 8 hours. If the repair is not completed within 8 hours, restart and enter the next 8-hour repair mode. During the repair process, someone needs to be on duty. If there is a severe heating phenomenon in the battery, stop the repair immediately. If the battery type is set to lithium iron phosphate battery (LiFeP04) mode, this function is the lithium battery activation function. The activation duration is 1 minute. If the activation is not completed within 1 minute, restart and enter the next 1-minute activation mode. Note: (Both the repair mode and the activation mode are powered by OV. When using, the clip must not be reversed or short-circuited.)



3.Functional Features

- 1.Intelligent identification: Automatically determines battery voltage and capacity, 12V or 24V batteries
2. One-click Repair: 0V start to repair power loss and sulfurized batteries. (Only supports 12V batteries)
3. One-click Activation: 0V start to activate the lithium battery protection battery. (Only supports 12V battery)
- 4.Reverse connection protection: If the polarity of the clamp wire of the machine is reversed with respect to the polarity of the battery, an alarm will sound automatically. Once the connection is correct, the alarm will be automatically deactivated.
5. Short-circuit protection: In case of an accidental short circuit of the clamp, the output will be shut off.
- 6.Low-voltage protection: Charging will not commence when the battery voltage drops below 3V. Before the voltage drops below 10V, a small current of 2.5A will be used for charging for 15 minutes.
7. Overcharge Protection: Automatically stops when fully charged.
8. Multi-stage charging: Lead-acid battery: trickle charging + constant current charging + constant voltage charging + floating charging + self-stop when fully charged; Lithium iron phosphate battery: trickle charging + constant current charging + constant voltage charging + self-stop when fully charged

4.Technical Specifications

Model number	DC-30	DC-35
Input voltage	AC110V / AC220V ±20V	
Frequency	50Hz/60Hz	
Output voltage	STD GEL AGM :14.8V 29.6V LiFeP04: 14.6V 29.2V	
Output current	12V(5A 10A 30A) 24V(5A 10A 15A)	12V(5A 10A 35A) 24V(5A 10A 18A)
Appropriate battery capacity	15AH-250AH	15AH-300AH
Appropriate battery type	STD GEL AGM LiFeP04	
Peak power	450W	500W
Shell size	268*258*115mm	
Power line length	150cm	
Output line length	100cm	
Product Net Weight	About 2kg	

5. Important Notes

- * It is strictly prohibited to use as a starting power supply.
- * It is strictly prohibited to charge damaged batteries.
- * It is strictly prohibited to use it in damp, hot, or environments with flammable or explosive gases.
- * Internal high-pressure hazard. Do not open it by yourself. In case of any malfunction, please contact the seller. Otherwise, no warranty will be provided.
- * Hydrogen will escape during battery charging, so the working environment should be well ventilated to avoid explosion.
- * Product specifications are subject to change without prior notice.

6.Charging schedule

Charging schedule		
Current setting	Recommended battery capacity	Charging duration
5A	15AH-50AH	4.5H-15H
10A	30AH-100AH	4.5H-15H
12A	36AH-120AH	4.5H-15H
15A	45AH-150AH	4.5H-15H
18A	54AH-180AH	4.5H-15H
20A	60AH-200AH	4.5H-15H
25A	75AH-250AH	4.5H-15H
30A	90AH-300AH	4.5H-15H
35A	105AH-350AH	4.5H-15H

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