

TA-DC-MD

Manual Operation



TARY
— 泰瑞通达 —

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Model	TA-DC-7MD	TA-DC-15MD	TA-DC-20MD	TA-DC-30MD
Output Power	7KW	15KW	20KW	30KW
Output Voltage	220V (single phase)	220V(3 phase)	200-750V(3 phase)	200-1000V(3 phase)
Output Current	20A	25A/37A	32A/50A	50A/100A
Input voltage	90-265V	260-475V		
Input Connection	L+N+PE	3P+N+PE		
Input Current	32A	25A	32A	45A
Frequency	50/60 Hz			
Power Factor	> 0.99@ rated voltage			
Efficiency	95%			
Display	Digital tube/5-inch display			
Dimension(mm)	450*150*310	500*200*320		
Weight	20KG	25KG	28KG	
Auxiliary source	12V(24V optional)			
Operating Temperature	-20°C to +50°C			
Altitude	2000M			
IP LEVEL	IP54			
Working Relative Humidity	RH≤95%			
Input cable length	0M(Customization Acceptable)			
Gun cable length	3M(Customization Acceptable)			
Interface Standard	CCS CHADEMO GB/T			
Charging protocol	GBT27930/CHADEMO 2.0/ DIN 70121 OCPP 1.6(JSON)/ISO 15118			
Certification	CE , ROHS			

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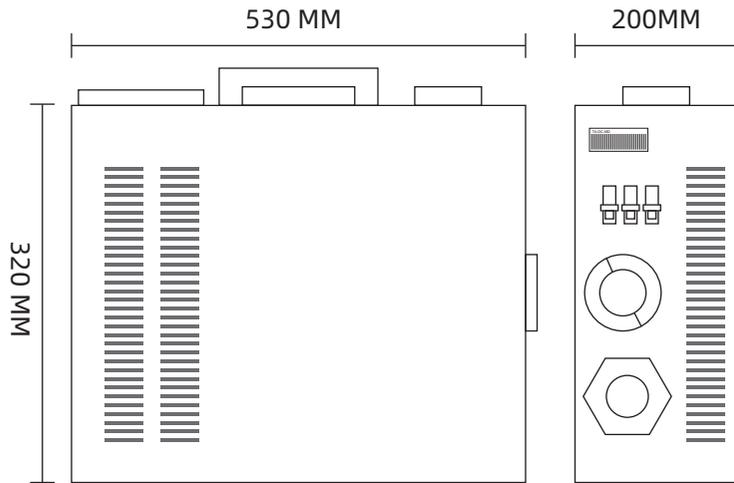
01

Charging station operation

1.1 Using the environment

1.2 Power on the device

Use of
Charging Pile



TA-DC-MD			
Item length	530 MM	Package length	590 MM
Item Width	320 MM	Package Width	520 MM
Item Height	200 MM	Package Height	720 MM
Item Weight	33.5 KG	Package Weight	48 KG

1.1 Using the environment

The usage environment requirements for portable chargers include the following aspects:

- Indoor environment is preferred: If used outdoors, a dry and avoid direct contact with rainwater should be chosen.
- Suitable temperature: The charger should be used normally within the temperature range to avoid exposure to extreme temperature environments.
- Avoid dust: The charger should be kept away from areas with high levels of dust to prevent dust from entering the interior of the charger.
- Avoid high temperatures: When using a charger, ensure that the surrounding environment is well ventilated and avoid direct sunlight or placing it in a hot place.
- Moisture-proof and moisture-proof: Please place the charger in a dry and ventilated environment, avoiding exposure to damp or dusty environments, to avoid affecting the charging effect and product lifespan.

1.2 Power on the device

After all the pre operation inspection items meet the requirements, close the power supply incoming leakage protection circuit breaker. After powering on, observe the status of the LED indicator light

- Normal standby: The blue light is always on
- Charging status: Green light always on
- Equipment malfunction: Red light always on

02

Interface Introduction

2.1 Main interface

2.1.1 Equipment query

2.2 System settings interface

2.2.1 Administrator entrance

2.2.2 Introduction to System Settings

Use of
Charging Pile

2.1 Main interface

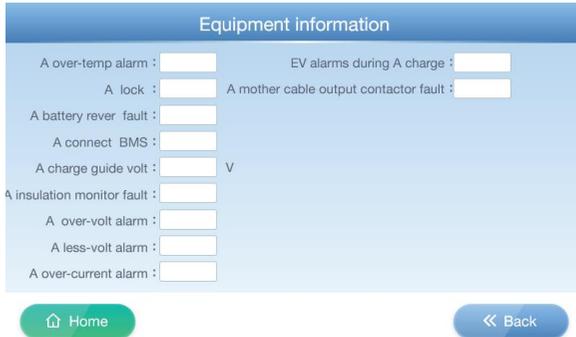
On the left side of the screen main interface of the portable single gun DC charger is a charging gun and gun lock button, and on the right side are four functional menu buttons: Record query, Card checking, rate Inquiry, and Equipment query. Due to the fact that portable charging is for personal use and does not require any charges, there is no need to check the Record query, Card checking, and Rate inquiry menus for daily use.



2.1.1 Equipment query

Click on **[Equipment Query]** to enter the Equipment information interface, check the operating status of the charger, and facilitate quick and easy troubleshooting of the charger.

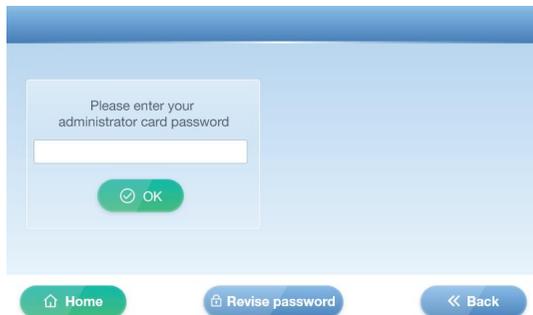




2.2 System settings interface

2.2.1 Administrator entrance

Click continuously three times in the upper right corner of the main screen interface to enter the administrator entrance, enter the administrator password to enter the system settings interface, and click [**Revise password**] to change the administrator password.



2.2.2 Introduction to System Settings

At the administrator entrance, enter the password and enter the system settings interface to view and configure all functions of the charger. The function menu includes Mode switching, System configuration, Card management, Rate setting, System upgrade, Voltage calibration, Network settings, and Help. Due to the fact that portable charging is for personal use, there is no need to deduct fees or swipe cards. Therefore, daily use does not require setting up the three function menus of Card management, Rate setting, and Network settings.



2.2.2.1 Mode switching

Click on the Mode Switch function menu to enter the Mode Switch interface, where you can view and modify relevant parameters:

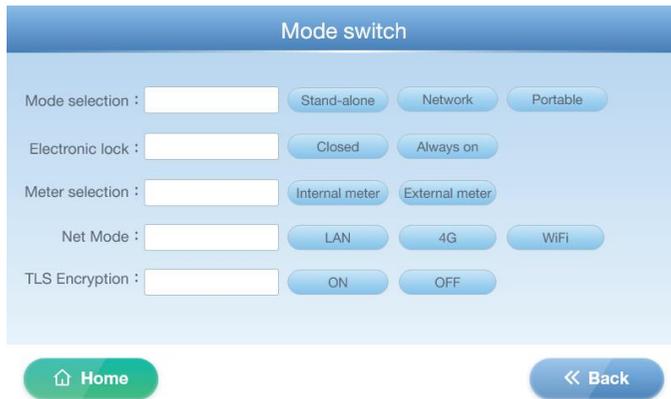
Mode selection: Portable

Electronic lock: defaults to Always on (the charging gun head electronic lock only works when the gun head is equipped with an electronic lock function)

Meter selection: defaults to automatic selection of OFF

Net mode: is empty

TLS encryption: No need to select



2.2.2.2 System configuration

Click on the **[System configuration]** function menu to enter the System configuration interface:

1) On the first page of System configuration, view and modify relevant parameters:

Pile Number: defaults to empty

Overvoltage threshold: filled in based on the voltage of the charger module, with a default value of 760V

Maximum output current: Fill in based on the charger module current or the rated current of the gun wire, with a default value of 40A

Overcurrent threshold: greater than the rated current of the charger module or gun wire, default value 260A

Maximum output power: Fill in the maximum output power value as needed, with the default value being the rated power of the charger

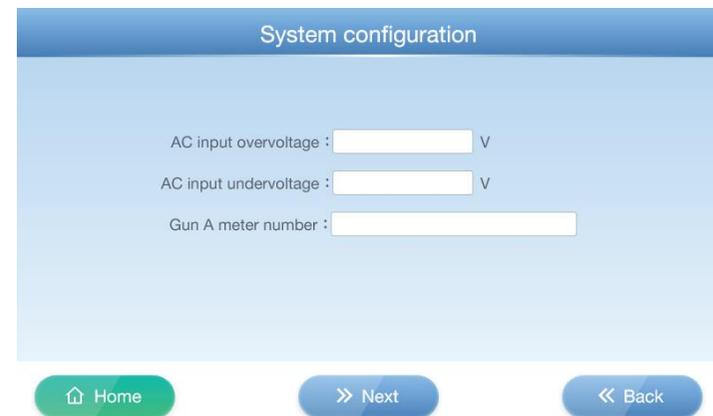
SOC threshold: default to 100%, with the SOC of electric vehicles, taking the minimum value of both as the upper limit of SOC.

Load Balancing: No need to select



2) Click the Next button to navigate to the second page of System configuration, where you can view and modify relevant parameters:

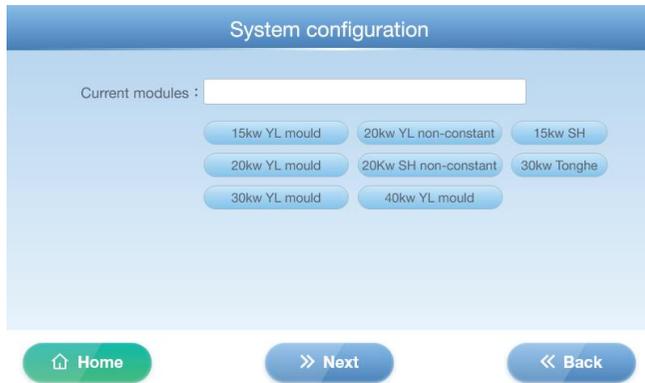
AC input voltage: set to 450V by default based on the voltage of the power input system



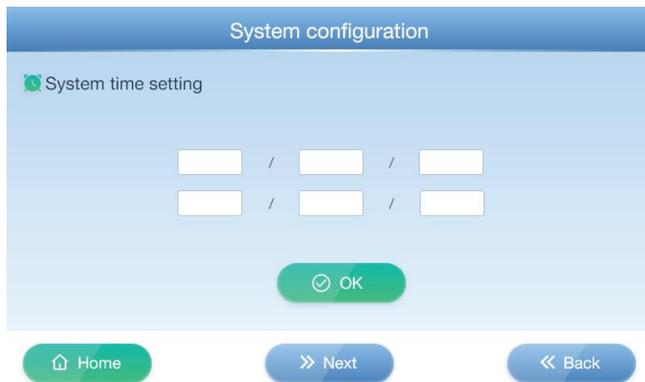
AC input undervoltage: According to the system voltage setting of the power supply, the default setting is 330V

Gun A meter number: Broadcast address, no need to set

Recording information: Clear Records (Portable charging, no charging records)



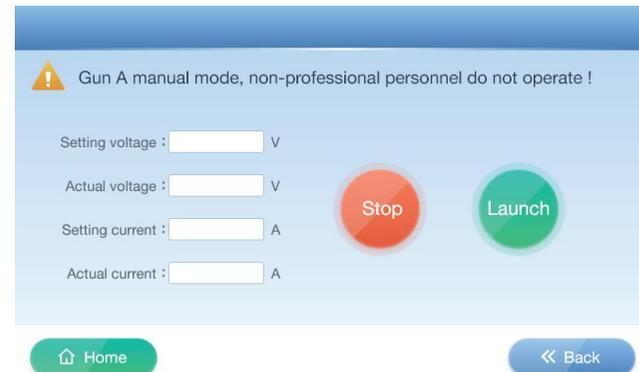
3) Click the Next button to go to the third page of System configuration, view and select the power of the charger module, which has been set to 20kw at the factory.



4) Click the Next button to navigate to the fourth page of the System configuration and modify the system time. The top line displays the year, month, and day, while the bottom line displays the hours, minutes, and seconds. Click on the input box to enter the correct time, and finally click the OK button to save the time settings.

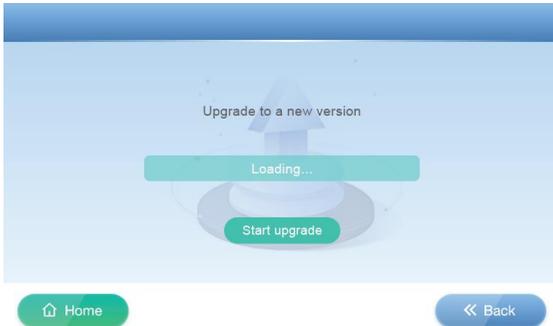


5) Click the Next button to go to the fifth page of the System configuration and enter manual mode. Calibrate the charging current and voltage, which have already been calibrated at the factory. Please do not calibrate them randomly.



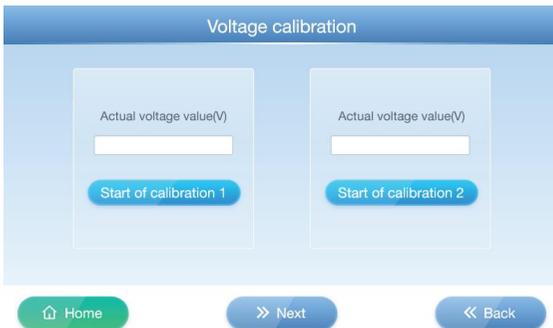
2.2.2.3 System upgrade

Click on the **[System upgrade]** function menu to enter the System upgrade interface. Store the motherboard program in a USB drive, then insert the USB drive containing the program into the USB interface of the charger motherboard. Click the Start upgrade button to start upgrading the program. The progress bar at the bottom reaches the far right, and the upgrade is completed. Restart the charger.



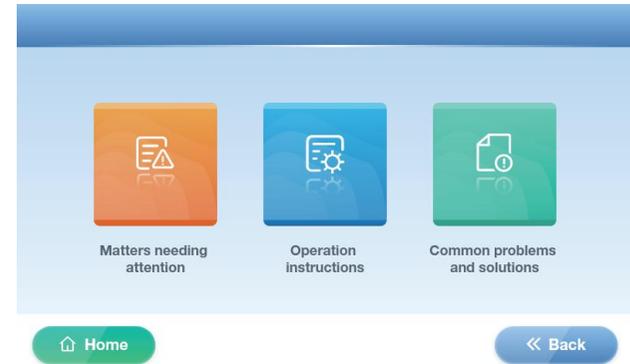
2.2.2.4 Voltage calibration

Click on the **[Voltage calibration]** function menu to enter the Voltage calibration interface. The first page is for calibrating the actual voltage value, the second page is for calibrating the actual current value, and the third page is for calibrating the voltage value with or without the gun inserted. It has been calibrated at the factory, so please do not calibrate it randomly.



2.2.2.5 Help

Click on the **[Help]** function menu to enter the Help interface. The main functions include Matters Needing Attention, Operation Instructions, Common Problems and Solutions. Click the corresponding function button to display the relevant main content.



03

Charging operation

3.1 Portable

3.2 Stop charging

Use of
Charging Pile

3.1 Portable

Firstly, in the Mode switch interface, configure the following parameters and restart the charger (changing the charging mode requires restarting the device) to start charging.

Mode selection: Portable

Electronic lock: default Always on

Meter selection: defaults to OFF

Net mode: is empty

TLS encryption: No need to select

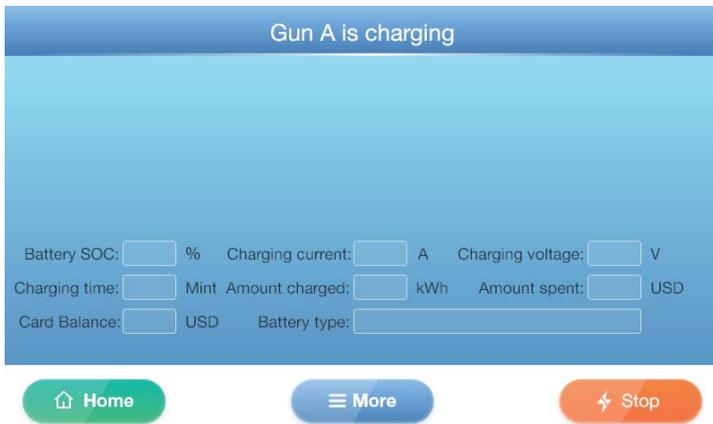
The screenshot shows a web interface titled "Mode switch" with the following configuration options:

- Mode selection : [input field] Stand-alone Network Portable
- Electronic lock : [input field] Closed Always on
- Meter selection : [input field] Internal meter External meter
- Net Mode : [input field] LAN 4G WIFI
- TLS Encryption : [input field] ON OFF

At the bottom of the interface, there are two buttons: "Home" (with a house icon) and "Back" (with a double arrow icon).



Click the Start charging button, the charger will automatically detect for a few seconds and start charging. The charging interface displays Battery SOC, Charging time, Battery type, Charging voltage, while Portable charging does not display Card Balance, Charging current, Amount charged, or Cost information.



3.2 Stop charging

There are several ways to stop charging in Portable charging mode:

- Click the Stop button on the charging interface to stop charging;
- Press the start stop button to stop charging;
- Stop when full;
- Press the emergency stop button to stop (do not touch unless in an emergency).

04

Common problems and solutions of charging stations

Use of
Charging Pile

- ◆ When using a charger, sometimes you may encounter charging failure and be unable to charge normally. Please check if the connector is intact and ensure that the plug is securely inserted. If there are any problems, please contact the manufacturer in a timely manner to solve the problem.

- ◆ During the charging process, do not forcefully pull out the charging connector. Forcefully pulling out the charging connector may cause a fire at the connector and cause safety accidents.

- ◆ Entering the system configuration interface while charging will cause the charging to stop.

- ◆ When installing the charger, the grounding circuit should be reliable, without any defects or ungrounded, otherwise it cannot be charged.

- ◆ If a safety accident occurs during the charging process, such as abnormal noise, short circuit of wires, etc., please press the emergency stop button on the board below, disconnect all power sources, and immediately contact the on-site management personnel.

- ◆ The display screen does not light up. Restart the charger or contact professional technicians for repair.

- ◆ The charging cable, power supply, and interface are damaged. Please contact professional technicians for repair and replacement, and conduct regular inspections.

- ◆ Check and clean the damaged gun head and foreign objects in the gun needle hole.

- ◆ Emergency stop button, avoid touching in non emergency situations.

- ◆ If the charger is not used for a long time, it should be stored in a dry place and its condition should be checked regularly.

- ◆ During the charging process, it is necessary to maintain good ventilation between the charger and the electric vehicle to prevent overheating.

- ◆ Every time you charge, you should check the wiring condition of the charging cable to avoid safety accidents. Charge according to proper procedures.