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To avoid personal injury, property damage, or accidental damage to the product, please read all the information in this chapter before using the product.

⚠ Operating Specifications and Requirements for High Voltage Equipment

(1) Please read this manual carefully and operate and use the equipment in accordance with relevant guidelines and safety regulations.

(2) During the maintenance process, necessary safety protective equipment must be worn, and the withstand voltage rating of the safety protective equipment must be greater than 1000V.

(3) When disassembling, connecting, or operating high-voltage electrical appliances and equipment, pay attention to whether the protection against the vehicle body sheet metal is normal to avoid wear.

(4) When installing high-voltage component connectors and terminals, please ensure that the connectors are installed in place and confirm whether the connection is reliable.

(5) During maintenance, please apply the "One-Hand Rule" and use one hand for operation whenever possible.

(6) When using the equipment, please keep the workstation dry, bright, and ventilated to prevent electric shock accidents caused by humid environments.

(7) In the event of an abnormal accident or fire, operators shall, while ensuring personal safety, immediately disconnect the high-voltage and low-voltage circuits, evacuate personnel, and use a fire extinguisher and firefighting sand to extinguish the fire.

(8) During the equipment power output process, do not operate the equipment or connect relevant harnesses while energized.

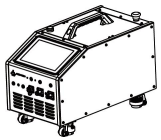
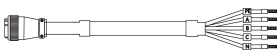
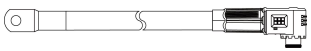
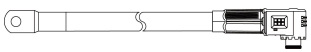
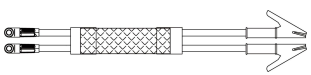
(9) Improper use of the equipment may cause personal injury.

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1. Packing List

The general accessories for each machine are the same, but the product configuration varies for different markets. Please consult the local dealer or check the packing list supplied with the machine for details.

Host and Accessories			
No.	**Name**	**Quantity**	**Reference Picture**
1	DP903 Main Unit	1	
2	AC Power Cord (AC380V)	1	
3	High Voltage Output Cable (Positive - orange)	1	
4	High Voltage Output Cable (Negative - black)	1	
5	Low Voltage Output Cable (Positive - red)	1	
6	Low Voltage Output Cable (Negative-black)	1	
7	High Voltage Output Power Cord	1	

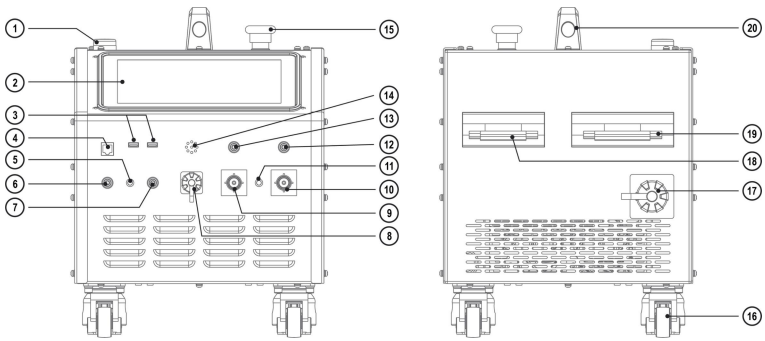
8	Voltage Acquisition Cable	1	
9	WLAN USB Adaptor	1	
10	User Manual	1	-
11	Quick Reference Guide	1	-
12	Packing List	1	-

2. Product Introduction

2.1 Overview

The DP903 is a smartdigital power & mobile charging station for automotive maintenance developed by SmartSafe. This equipment provides power for off-vehicle testing and bench testing of high- and low-voltage electrical systems of new energy vehicles, and supports module charging and vehicle charging. The low-voltage section is compatible with most applications for conventional fuel vehicles, such as ECU programming, logic-level maintenance, and low-voltage device driving; the high-voltage section covers most application scenarios for new energy EVs.

2.2 DP903 Main Unit



No.	Name and Description
1	**Status Indicator Light** Solid green indicates the equipment is in standby, flashing green indicates the equipment is operating, and flashing red indicates an equipment fault/shutdown warning.
2	**Screen**

3	**USB Port** Used for exporting data.
4	**Communication Interface** Used for communication and other expandable functions.
5	**Low Voltage Warning Light** Solid red indicates low voltage is active.
6	**Low Voltage Output Port Positive (Red)**
7	**Low Voltage Output Port Negative (Black)**
8	**BMS Interface** Used to connect to the battery BMS to acquire battery parameters.
9	**High Voltage Output Port Positive (Orange)**
10	**High Voltage Output Port Negative (Black)**
11	**High Voltage Warning Light** Solid red indicates high voltage is active.
12	**Voltage Acquisition Port Positive (Red)** Connects to the battery positive terminal via the voltage acquisition cable.
13	**Voltage Acquisition Port Negative (Black)** Connects to the battery negative terminal via the voltage acquisition cable.
14	**Speaker Hole** Emits a prompt sound during high voltage output.
15	**Emergency Stop Switch** Used to cut off power to the equipment in an emergency and immediately stop operation. After pressing this emergency stop button, rotate the switch to the right to reset it before the AC switch can be closed again.

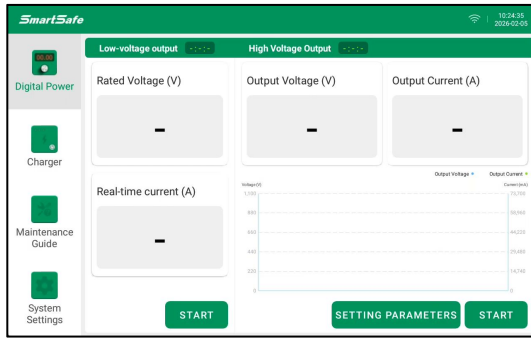
16	**Casters** Used for moving the equipment, supporting the equipment, and adjusting the equipment level.
17	**Power Input Port**
18	**DC Switch** Turns on/off DC output.
19	**AC Switch** Turns on/off equipment AC input.
20	**Handle**

3. Technical Parameters

Technical Specifications		
Power Supply		380 V 3~
Total Power		20 kW max.
Charging Parameters	**Charging Voltage**	50–1000 V ⎓
	Charging Current	67A Max
Low Voltage Parameters	**Fixed Voltage**	12 V ⎓
	Max. Current	5 A max.
High Voltage Parameters	**Voltage Range**	50–1000 V ⎓
	Current Range	0.5–20 A
	Voltage Regulation Accuracy	≤ ±0.5% (within the output voltage 200–1000 V range)
	Current Regulation Accuracy	≤ ±1% (Within the range of 20% of rated output current to maximum output current)
	Output Protection	Current Limiting Protection, Short Circuit Protection, Under-voltage Protection, Over-voltage Protection, Over-Temperature Protection
	Input Protection	Over-voltage Protection, Short Circuit Protection, Under-voltage Protection
	Insulation Withstand Voltage	Input to Ground: 1500 VDC, 60 s, 10 mA; Output to Ground: 1500 VDC, 60 s, 10 mA; Input to Output: 3500 VDC, 60 s, 10 mA;
Operating Environment	**Altitude**	Not exceeding 2000 m
	Overvoltage Category	Category Ⅱ (GB 16895.12)
	Pollution Degree	Degree Ⅱ
	Operating Temperature	-10~50℃
	Storage Temperature	-20~70℃
	Operating Relative Humidity	5–95% RH (non-condensing)
Dimensions		339.9 × 660.6 × 435.2 mm

4. Product Usage

The DP903 mainly includes two functional modules: Digital Power and Charger.

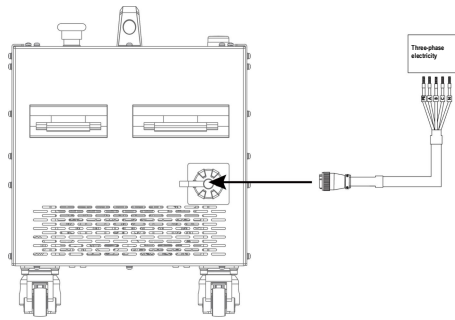


4.1 Digital Power

4.1.1 Equipment Connection

(1) Ensure that both the AC and DC switches on the equipment are in the OFF position.

(2) Connect the three-phase power using the power cable, and insert the power cable aviation plug end into the equipment power input port.

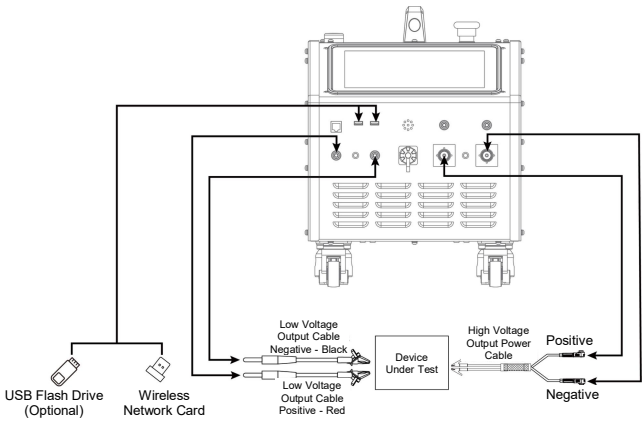


(3) Select the Low Voltage Output or High Voltage Output function according

to the required voltage of the device under test.

3-1) Low Voltage Output: Connect the red low-voltage output cable plug and clip to the DP903 Low Voltage Output Port Positive and the positive terminal of the device under test respectively; connect the black low-voltage output cable plug and clip to the DP903 Low Voltage Output Port Negative and the negative terminal of the device under test respectively.

3-2) High Voltage Output: Connect the orange plug and clip of the high voltage output power cable to the DP903 High Voltage Output Port Positive and the positive terminal of the device under test respectively; connect the black plug and clip of the high voltage output power cable respectively to the DP903 High Voltage Output Port Negative and the negative terminal of the device under test.

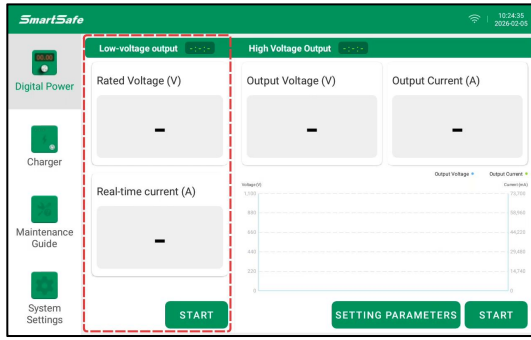


(4) Insert the USB wireless network card into the USB port of the DP903.

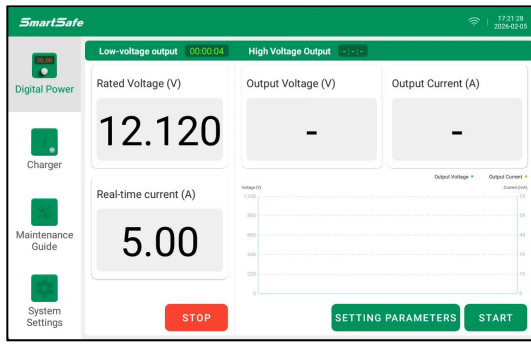
4.1.2 Low Voltage Output

(1) Turn on the DP903's AC and DC switches in sequence after connecting the harness.

(2) Tap the **"Digital Power"** function module on the left side of the screen. The left side of the digital power interface is the Low Voltage function area.



(3) Confirm that the low voltage output cable connects correctly to the positive and negative terminals of the device under test, then tap the **"START"** button. At this time, the Low Voltage Warning Light (Red) remains on, and the DP903 will supply power to the device under test according to the set parameters. The screen will display the Low Voltage Output duration, rated voltage, and real-time current.



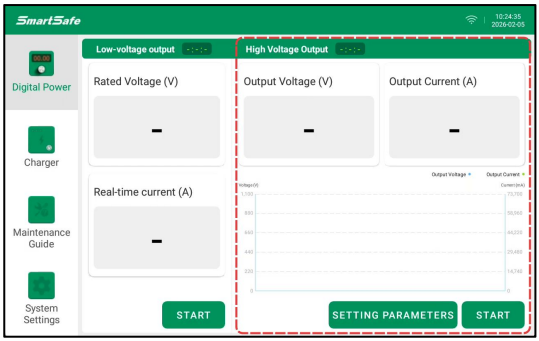
(4) To stop the low voltage output, tap the **"STOP"** button. The Low Voltage Warning Light (Red) turns off, and the DP903 turns off the low voltage output.

4.1.3 High Voltage Output

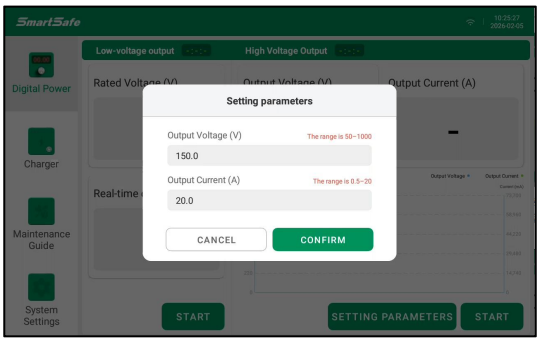
(1) Turn on the DP903's AC and DC switches in sequence after connecting the harness.

(2) Tap the **"Digital Power"** function module on the left side of the screen.

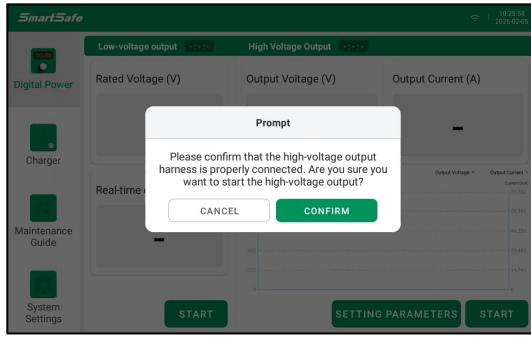
The right side of the digital power interface is the High Voltage function area.



(3) Tap the **"Setting Parameters"** button. Set the target voltage and current values respectively, then tap the **"CONFIRM"** button.

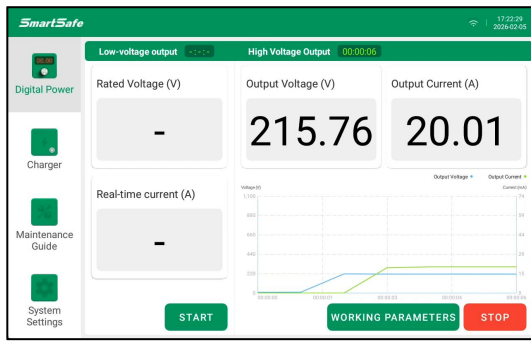


(4) After confirming that the high voltage output cable connects correctly to the positive and negative terminals of the device under test and parameters are set, tap the **"CONFIRM"** button. At this time, the High Voltage Warning Light (Red) remains on, the buzzer sounds continuously, and the DP903 will supply power to the device under test according to the set parameters.



The screen will display the High Voltage Output duration, total voltage, total current, and voltage/current curve. Tap the full-screen button in the top left corner of the curve to enlarge the curve to full-screen display.

Note: During high voltage output, voltage and current cannot be adjusted. To adjust voltage or current, please stop the high voltage output first and then set it again.



(5) To stop the high voltage output, tap the **"STOP"** button. The High Voltage Warning Light (Red) turns off, and the DP903 turns off the high voltage output.

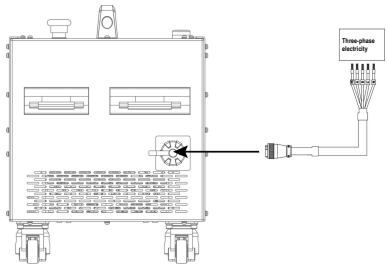
Note: It is recommended to cover the High Voltage Output Port with the dust cover when the DP903 high voltage output function is not in use, to protect the interface and prevent accidental contact.

4.2 Charger

4.2.1 Equipment Connection

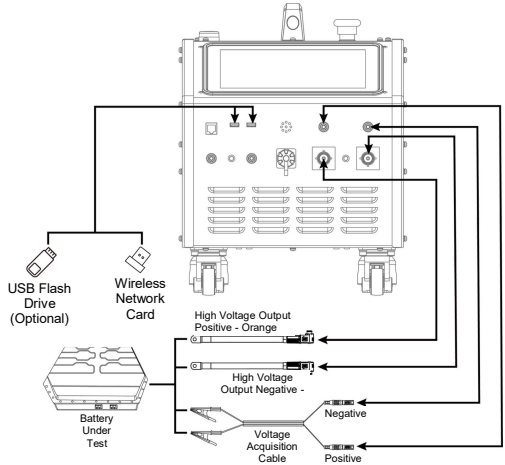
(1) Ensure that both the AC and DC switches on the equipment are in the OFF position.

(2) Connect the three-phase power using the power cable, and insert the power cable aviation plug end into the equipment power input port.

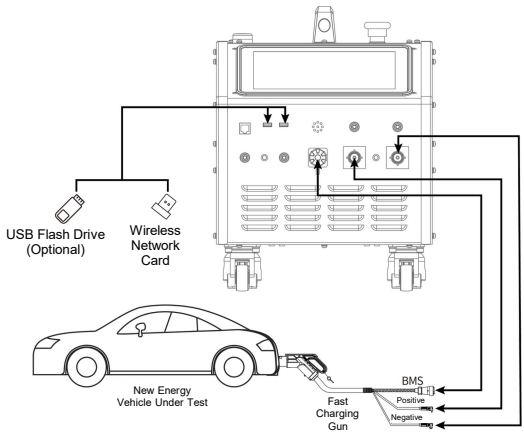


(3) The Charger function is divided into two modes: Fast Charging Gun Charging (Optional) and Blind Charging.

3-1) Blind Charging: Insert the orange high voltage output cable into the DP903 High Voltage Output Port Positive, and connect the other end to the battery positive terminal; insert the black high voltage output cable into the DP903 High Voltage Output Port Negative, and connect the other end to the battery negative terminal; connect the red plug and clip of the voltage acquisition cable to the DP903 Voltage Acquisition Port Positive and the battery positive terminal respectively; connect the black plug and clip of the voltage acquisition cable to the DP903 Voltage Acquisition Port Negative and the battery negative terminal respectively.



3-2) Fast Charging Gun (Optional): Insert the fast charging gun's aviation plug into the DP903's BMS interface; insert the orange plug into the DP903 High Voltage Output Port Positive, and the black plug into the DP903 High Voltage Output Port Negative; insert the fast charging gun's connector into the vehicle's fast charging port.



(4) Insert the USB wireless network card into the USB port of the DP903.

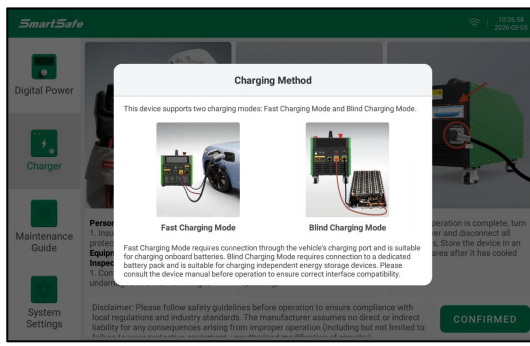
4.2.2 Fast Charging Gun Charging (Optional)

(1) Turn on the DP903's AC and DC switches in sequence after connecting the harness.

(2) Tap the **"Charger"** function module on the left side of the screen to enter the interface below. Read the relevant safety prompts on the screen, wear personal protective equipment as required, and then tap **"CONFIRMED"**.

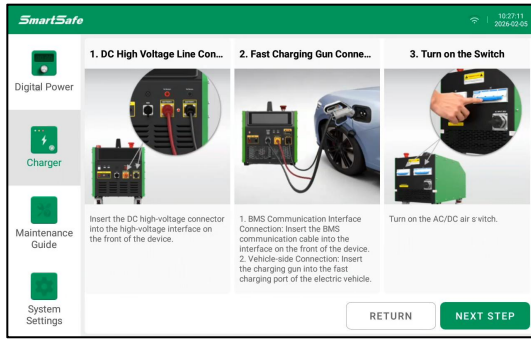


(3) A pop-up window prompts the user to select a charging method. If the user has the optional fast charging gun and the harness is connected, tap **"Fast Charging Mode"** to enter the fast charging gun charging Mode; if the fast charging gun is not connected, tap **"Blind Charging Mode"** to enter blind charging mode. Refer to the next section for specific operations.

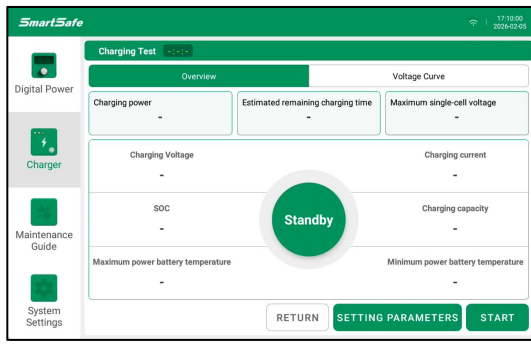


(4) Confirm the harness connections according to the on-screen prompts,

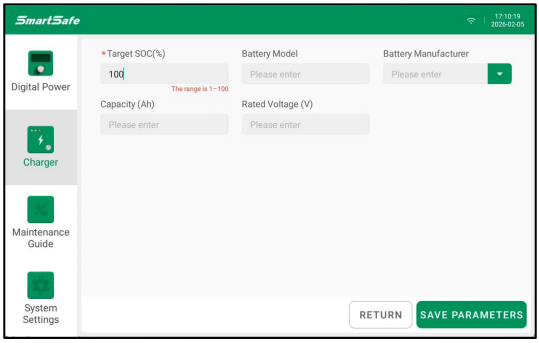
then tap **"NEXT STEP"**.



(5) Charging parameters must be set before charging begins. Tap the **"Setting Parameters"** button to enter the parameter setting interface.

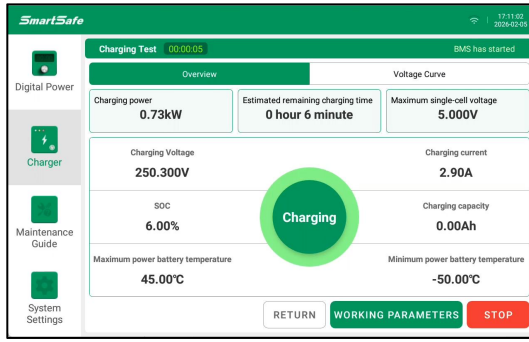


(6) After setting the charging parameters, tap the **"Save Parameters"** button to proceed to the next step.



Parameter Description	
Target SOC	Set the target state of charge percentage to be reached.
Battery Model	Enter the model of the battery module under test, which can be identified from the label.
Battery Manufacturer	Select the brand or manufacturer of the battery under test.
Capacity	Enter the nominal capacity of the battery module under test, which can be identified from the label.
Rated Voltage	Enter the nominal voltage of the battery module under test.

(7) After completing the parameter settings, tap **"Save Parameters"** to return to the Charger main interface. Tap **"Start"** to charge the vehicle. Tap **"Stop"** to end the current charging process.



Parameter Description	
Charging Power	Current charging power.
Estimated Remaining Charging Time	Estimated time required to complete charging at the current rate.
Max Single-cell Voltage	The maximum voltage among the cells in the battery pack.
Charging Voltage	The voltage value currently charging the battery module.
Charging Current	The current value currently charging the battery module.
SOC	Current SOC percentage of the battery module.
Charging Capacity	Charged capacity of the battery module.
Max Power Battery Temperature	The highest temperature among the cells in the battery pack.
Min Power Battery Temperature	The lowest temperature among the cells in the battery pack.
BMS has started	The battery management system is enabled.

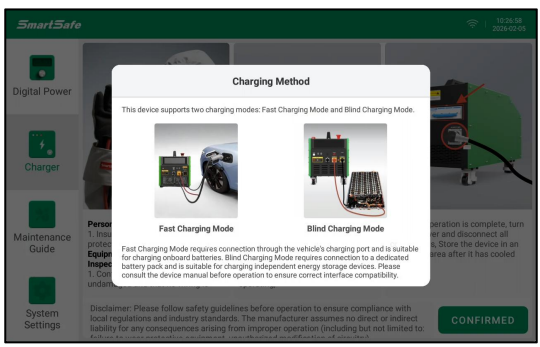
4.2.3 Blind Charging

(1) Turn on the DP903's AC and DC switches in sequence after connecting the harness.

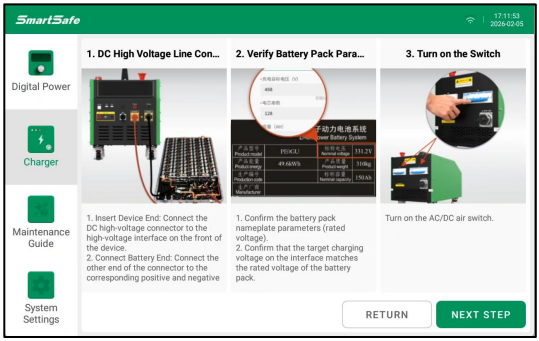
(2) Tap the **"Charger"** function module on the left side of the screen to enter the interface below. Read the relevant safety prompts on the screen, wear personal protective equipment as required, and then tap **"Confirmed"**.



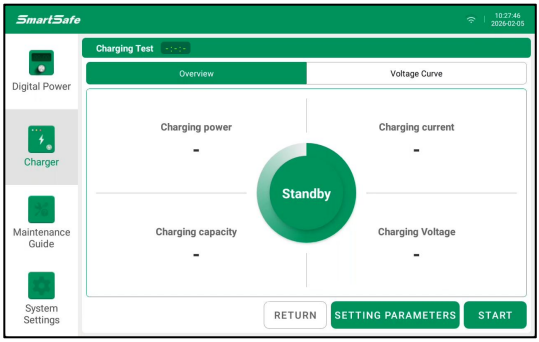
(3) A pop-up window prompts the user to select a charging method. Tap **"Blind Charging Mode"** to enter blind charging mode. If the user has the optional fast charging gun and the harness is connected, tap **"Fast Charging Mode"** to enter the fast charging gun charging mode. Refer to the previous section for specific operations.



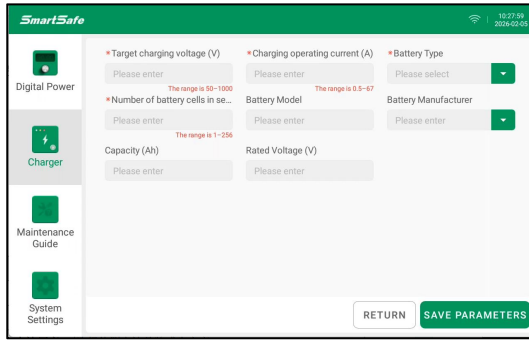
(4) Confirm the harness connections according to the on-screen prompts, then tap **"Next step"**.



(5) Charging parameters must be set before charging begins. Tap the **"Setting Parameters"** button to enter the parameter setting interface.

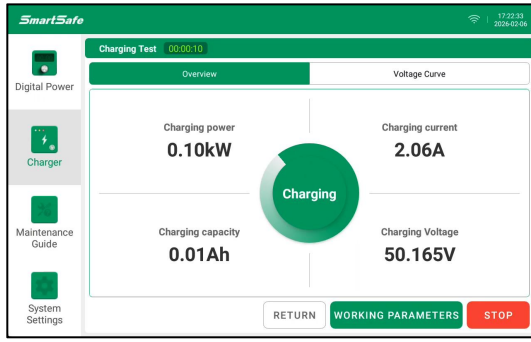


(6) Charging parameters must be set before charging begins. Tap the **"Setting Parameters"** button to enter the parameter setting interface.



Parameter Description	
Target Charging Voltage	The target voltage value for battery module charging.
Charging Operating Current	The current value currently charging the battery module.
Battery Type	Select the type of battery module to be tested.
Number of Battery Cells in Series	Cell count; enter the value based on the actual number of cells contained in the connected battery pack module.
Battery Model	Enter the model of the battery module under test, which can be identified from the label.
Battery Manufacturer	Select the brand or manufacturer of the battery under test.
Capacity	Enter the nominal capacity of the battery module under test, which can be identified from the label.
Rated Voltage	Enter the nominal voltage of the battery module under test.

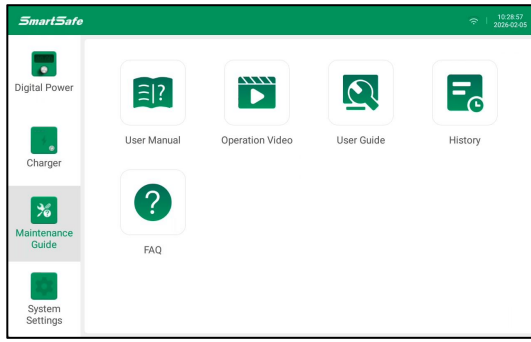
(7) After completing the parameter settings, click **"Save Parameters"** to return to the Charger main interface. Tap **"Start"** to start charging. Click **"Stop"** to end the current charging process.



Parameter Description	
Charging Power	Current charging power.
Charging Current	The current value currently charging the battery module.
Charging Capacity	Charged capacity of the battery module.
Charging Voltage	The voltage value currently charging the battery module.

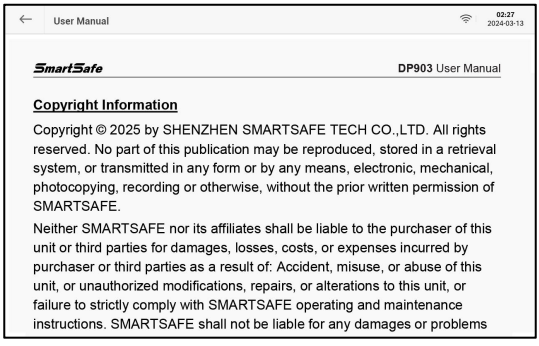
4.3 Maintenance Guide

Tap the **"Maintenance Guide"** function module on the left side of the screen. This module includes function options such as User Manual, Operation Videos, User Guide, History, and FAQ.



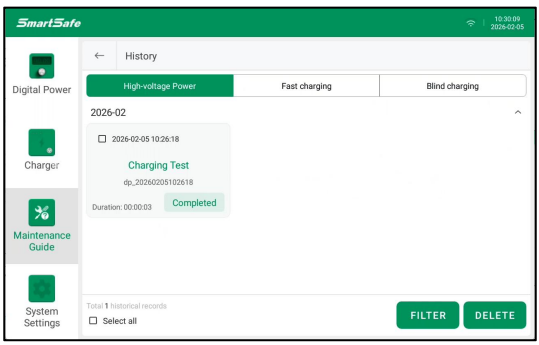
4.3.1 User Manual

Tap **"User Manual"** on the Maintenance Guide interface to access the User Manual interface, where you can view the electronic User Manual.



4.3.2 History

(1) Tap **"History"** on the Maintenance Guide interface to access the History interface. Tap Low Voltage, High Voltage, BMS Charging, and Normal Charging at the top of the screen to switch to different categories and view the history under that corresponding category.

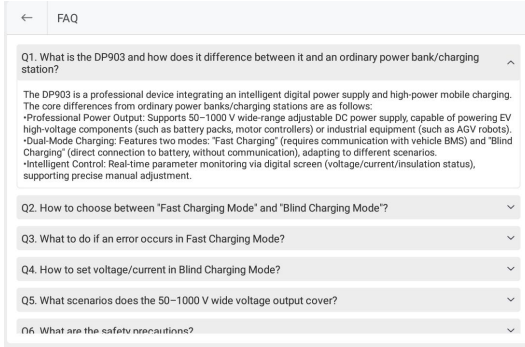


(2) Select one or multiple history records, and tap **"Delete"** to delete the selected records.

(3) Tap **"Filter"** to set conditions and filter records that meet the criteria.

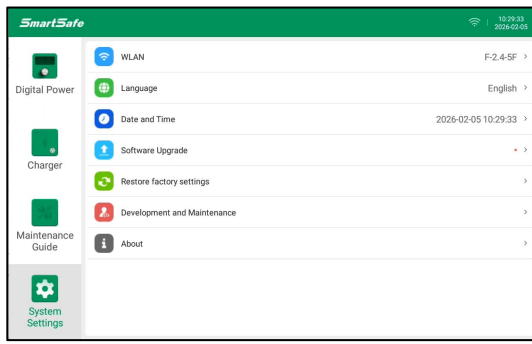
4.3.3 FAQ

Tap **"FAQ"** on the Maintenance Guide interface to access the FAQ interface, where you can view common questions and their solutions that may be encountered during product usage.



4.4 System Settings

Tap **"System Settings"** in the function menu on the left to enter the System Settings interface. System Settings include **WLAN**, **Language**, **Date and Time**, **Software Upgrade**, **Restore Factory Setings**, **Development and Maintenance**, and **About**.



4.4.1 WLAN

Used to set the wireless network connection of the equipment.



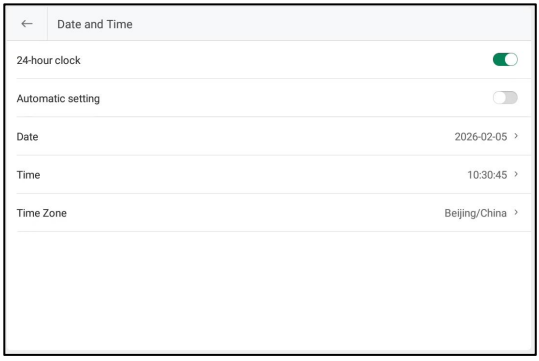
4.4.2 Language

Used to set the system language.



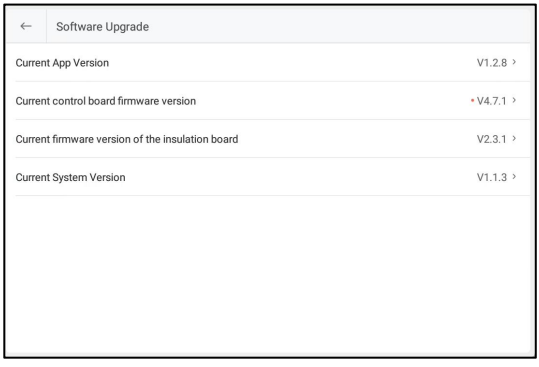
4.4.3 Date and Time

Used to set the date, time, and time zone.



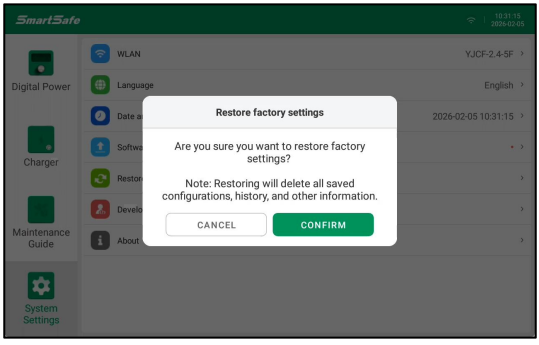
4.4.4 Software Upgrade

Used to view the current APP, firmware, and system versions. Tap the arrow to the right of the version number to check for available updates. If a new version is available, you can update the APP, firmware, and system to the latest versions.



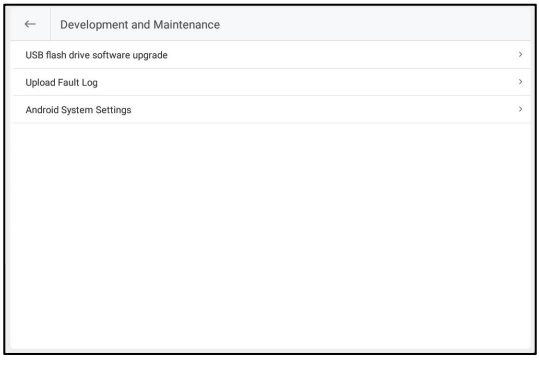
4.4.5 Restore Factory Setings

This operation will delete personal data and custom settings. Please proceed with caution.



4.4.6 Development and Maintenance

For manufacturer testing only. Unauthorized personnel shall not access.



4.4.7 About

Used to view information such as equipment model and serial number.



5. Equipment Error Codes

Error Code	Error Name	Message
E01	Connection Abnormal	Connection abnormality detected; operation interrupted. Please check power switch and cable connection status.
E02	Internal Communication Interruption	Communication with [Module Name] interrupted; please check the relevant module communication connection and retry.
		Communication interruption with insulation control board detected; operation interrupted. Please check the relevant module communication connection and retry.
		Communication interruption with main control board detected; operation interrupted. Please check the relevant module communication connection and retry.
E03	Equipment Tilt Protection	Device tilt angle too large; operation interrupted. Please adjust the position and retry.
E04	Power Input Phase Loss	Power input phase loss detected; operation interrupted. Please check the power supply environment and retry.
E05	Power Input Under-voltage	Power input under-voltage detected; operation interrupted. Please check the power supply environment and retry.
E06	Power Input Over-	Power input over-voltage detected; operation interrupted. Please

	voltage	check the power supply environment and retry.
E07	Power Output Over-current	Power module over-current detected; operation interrupted.
E08	AC/DC Power Module Abnormal	Abnormality detected in the AC/DC power module; operation interrupted.
E10	Internal Fault	Internal equipment fault detected; operation interrupted.
E11	Power Supply Over-temperature	Power module over-temperature detected; please wait for cooling and retry.
E14	No Voltage Input	No voltage input detected at the High Voltage Port. Please check the harness connection at this port.
E16	Voltage Out of Range	Main Test Port voltage detected exceeding equipment upper limit; operation interrupted. Please confirm if the battery meets equipment specifications.
		Main Test Port voltage below the equipment lower limit detected; operation interrupted. Please confirm that the battery meets the equipment specifications.
E18	Reverse Polarity Fault (Blind Charging Mode)	Main Test Port reverse polarity detected; operation interrupted. Please check the harness and retry.
E20	Abnormal Battery Voltage Change Rate	Abnormal battery voltage change rate detected at Main Test Port; operation interrupted. (200 mV/5 s)
E21	Battery Terminal Over-current	Battery over-current detected; operation interrupted.
E22	BMS Communication Abnormal	BMS communication abnormal; operation interrupted

6. Maintenance

(1) When the input power is short-circuited, the circuit breaker will trip automatically. Please turn off the power switch, unplug the power cable, and contact professional personnel for inspection.

(2) When there is a low-voltage power supply short circuit or other fault, please turn off the power switch, unplug the power cable, and contact

professional personnel for inspection.

(3) When there is a high-voltage power supply short circuit or other fault, please turn off the power switch, unplug the power cable, and contact professional personnel for inspection.

(4) If the fault is serious and cannot be resolved, please contact the local dealer or the Company.

7. FAQ

Q1. What is the DP903 and how does it difference between it and an ordinary power bank/charging station?

The DP903 is a professional device integrating a smartdigital power supply and high-power mobile charging. The core differences from ordinary power banks/charging stations are as follows:

- Professional Power Output: Supports 50–1000 V wide-range adjustable DC power supply, capable of powering EV high-voltage components (such as battery packs, motor controllers) or industrial equipment (such as AGV robots).
- Dual-Mode Charging: Features two modes: "Fast Charging" (requires communication with vehicle BMS) and "Blind Charging" (direct connection to battery, without communication), adapting to different scenarios.
- Intelligent Control: Real-time parameter monitoring via digital screen (voltage/current/insulation status), supporting precise manual adjustment.

Q2. How to choose between "Fast Charging Mode" and "Blind Charging Mode"?

- Fast Charging Mode: Connects to the EV fast charging port via a standard DC charging gun; the equipment automatically communicates with the vehicle BMS to match parameters. Suitable for complete electric vehicles.

- Blind Charging Mode: Uses special battery clips to directly connect to the positive and negative terminals of the battery; requires manual setting of voltage/current. Suitable for off-vehicle battery packs, special vehicles, or equipment without communication protocols.
- Selection Principle: Choose "Fast Charging" for charging complete vehicles, and choose "Blind Charging" for charging independent battery packs. Mixing interfaces is strictly prohibited!

Q3. What to do if an error occurs in Fast Charging Mode?

Troubleshoot according to the following steps:

- Check vehicle status: Ensure the vehicle is turned off and in a chargeable state.
- Confirm connection: Check if the charging gun is fully inserted and locked.
- Check error codes: Observe the DP903 screen or vehicle dashboard prompts. Common causes include:
- Communication timeout: Replug the charging gun.
- Insulation fault: Check that the vehicle interface is dry and clean.
- Parameters out of range: Vehicle demand exceeds the equipment output range.

Q4. How to set voltage/current in Blind Charging Mode?

- Voltage (V): Must be equal to or slightly higher than the battery's rated voltage (e.g., set to 145–150 V for a 144 V battery). Excessively high voltage is strictly prohibited!
- Current (A): Do not exceed the maximum charging current allowed for the battery. It is recommended to start testing with a small current of 0.1C–0.2C.
- Key: Be sure to consult the battery manual before setting. If there are no clear parameters, contact the manufacturer for confirmation.

Q5. What scenarios does the 50–1000 V wide voltage output cover?

- EV Maintenance: Charging/discharging tests for battery packs of hybrid models (e.g., 144 V / 288 V systems).
- High Voltage Component Testing: Offline testing of on-board accessories such as PTC heaters and electric compressors.
- Industrial Equipment Power Supply: Powering equipment such as AGV carts and energy storage units.

Q6. What are the safety precautions?

- Operational Protection: Wear insulating gloves during high voltage output to avoid contact with terminals or exposed cables.
- Environmental Requirements: Limited waterproof rating (does not protect against rain or snow); ensure proper ventilation and cooling of the area..
- Prohibited Actions: Disassembly or modification by non-professionals; children approaching the equipment.

Q7. Key Points for Long-term Storage and Maintenance

- Storage Environment: Dry and cool place; avoid high temperatures (> 70℃) or low temperatures (< 20℃).
- Cleaning: Wipe the housing with a dry soft cloth; chemical solvents are prohibited.

Warranty Terms

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE SMARTSAFE PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

SMARTSAFE electronic product is warranted against defects in materials and workmanship for one year from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and SMARTSAFE shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by SMARTSAFE in accordance with procedures established by SMARTSAFE. No agent, employee, or representative of SMARTSAFE has any authority to bind SMARTSAFE to any affirmation, representation, or warranty concerning SMARTSAFE automotive meters, except as stated herein.

Disclaimer

The above warranty is in lieu of any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Purchase Order

Replaceable and optional parts can be ordered directly from your SMARTSAFE authorized dealer. Your order should include the following information:

• Order quantity

• Part number

• Part name

Statement:

SMARTSAFE reserves the rights to make any change to product designs and specifications without notice. The actual object may differ a little from the descriptions in the manual in physical appearance, color and configuration. We have tried our best to make the descriptions and illustrations in the manual as accurate as possible, and defects are inevitable, if you have any question, please contact local dealer or after-sale service center of SMARTSAFE, SMARTSAFE does not bear any responsibility arising from misunderstandings.