D14 Smart Balance Charger

User Manual

Version：V1.0

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1.Wiring Instructions

Signal Name	Terminal Model	Pin Number	Pin Description
Balance Connector	HC-MX3.0-2*8AWTerminal	1	B0
		2	B1
		3	B2
		4	B3
		5	B4
		6	B5
		7	B6
		8	B7
		9	B8
		10	B9
		11	B10
		12	B11
		13	B12
		14	B13
		15	B14
		16	空

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Signal Name	Terminal Model	Pin Number	Pin Description
DC Output	AS150UPB-MMale Plug Board	1	CANH
		2	Not Connected
		3	Not Connected
		4	CANL
		5	BAT-
		6	BAT+

Signal Name	Terminal Model	Pin Number	Pin Description
AC Input	HC-99-05A/0B00-S06S09AC Power Socket	1	L（Live Line）
		2	N（Neutral Line）
		3	E（Ground Line）

2. Product Operation Instructions

2.1 Screen Interface Display

①: Charging port, click the area within the box to view detailed information. Clicking the CH1 box area will enter the detailed information of CH1, such as the CH1 battery information screen shown on the right.

②: Total battery voltage.

③: Charging current.

④: Remaining battery capacity (SOC).

⑤: Set full charge voltage and set maximum charging current, click to enter settings.

⑥: Charging duration.

⑦: Charger output voltage, output current.

⑧: AC input voltage.

⑨: Button switch icon, green indicates the switch is on and charging is in progress, gray indicates the switch is off.

⑩: Status display: waiting for charging, constant voltage charging, constant current charging, fully charged, charging disabled, maintenance in progress, maintenance completed.

⑪: Fault status icon prompt, click to view the specific fault status.

⑫: Click this icon in this interface to return to the homepage, as shown in the left image.

⑬: Click this icon in this interface to jump to the detailed interface of the CH2 port. Cycle-click to switch between interfaces.

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2.2 Screen Operation Interface

No BMS Communication Battery Charging Settings Interface

①: Select Full Charge Voltage:: For example, clicking 快充电压3 will select the "Fast Charge Voltage 3" charging mode, and the indicator icon for the selected mode will be highlighted.
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②: Set Fast Charge / Maintenance Voltage Value: for example, clicking on 4.45V will bring up the input keyboard interface, as shown in the right image.

③: Select the Fast Charge Voltage Parameter Settings Interface: Click 设置电压 。

④: Select the Maximum Charging Current Parameter Settings Interface: Click 设置电流 。

⑤: After setting, click icon to ensure the settings are not lost after power off.

⑥: In this interface, click the icon to jump to the CH2 port parameter settings interface. Cycle-click to switch between interfaces.

⑦: In this interface, click the icon to return to the homepage.

⑧: Select Maximum Charging Current:: For example, clicking on 快充电流3 will select the "Fast Charge Current 3" charging current 。

⑨: Set Maximum Charging Current Value: For example, clicking the 20A icon will bring up the input keyboard interface, as shown in the right image.

Friendly Reminder:
If the battery is equipped with a CAN communication BMS, there is no need to set the fast charge voltage or maximum charging current on the charger screen. The charging voltage and current will be output based on the values requested by the BMS.

2.3 Charging Operation

2.3.1 After setting the charging parameters, press the button to start charging. The button indicator light will turn on.

2.3.2 During the charging process, every time you click to set the charging parameters, you will need to press the button to start charging again.

2.3.3 After charging is completed or maintenance ends, the button function will automatically be disabled, and the indicator light will turn off. To start charging again, you will need to press the button once more.

2.3.4 Every time the battery is replaced, you need to press the button to start charging again.

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