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		Confidential level: confidential	page number:1/1 1

Product engineering specification

Product model: T4

Input specifications: 220vc

Output specifications: 5v

Information version: rev 01

issue date:

Specification release signboard			
Production	Review		Approved

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Version Changes Record

version ion REV.	Modify Content Description Description	date Date	Modifier Prepared	Approver Approved
00	Initial issue of Original issue	2020/06/03		

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T4 sharing charging cabinet specification

1. Product Overview Products Overview

This specification describes in detail the detailed technical requirements of the electrical performance, product structure, working environment, product reliability, safety regulations, etc. of a mobile power charging device. The input power range of the machine is 100vac-240v and the standard output specification is 5v. The main feature of this unit is to charge the mobile power supply (f015/f016/f018/f018b) as a dedicated charging device, and to lend and return the mobile power through the mobile device.

1.1, product category Product types

◆**Special charging equipment:** This equipment is directly powered by AC, intelligently provides 5v power output, intelligent charging for mobile power of the equipment, and intelligent lending and return of mobile power.

1.2, main features Key Features:

◆**f015/f016/f018/f018b Charging:** This power supply can be used as a dedicated charging device for f015/f016/f018/f018b.

◆ **Protection function:** The power supply has perfect output olp (overload) and osp (short circuit) protection.

◆**Intelligent identification:** The device can be intelligently identified and charged with the mobile power supply (f015/f016/f018/f018b).

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◆ 4G communication: The device is embedded with 4G communication module, and mobile devices (such as Smart phone/Pad, etc.) can be interconnected and interacted with by 4G module.

◆ Mechanical and electronic unlocking: When the machine is electronically unlocked, the charging treasure can be taken out and available. If the illegal removal takes the electronic lock, the charging treasure cannot be used. When returning, the mechanical lock can not take the charging treasure, the electronic lock charging treasure can not be used.

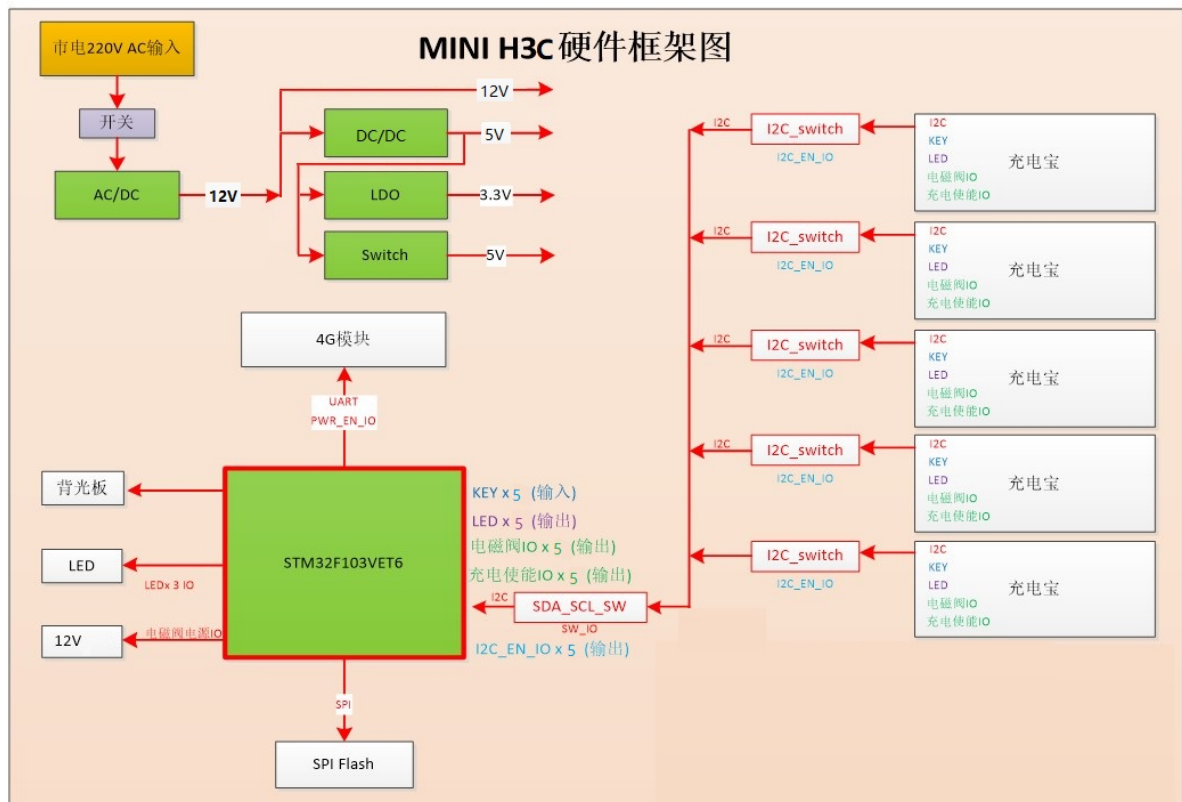
◆ Intelligent control: The main control and charging treasure communication, the master control at any time to control the information of all charging treasures.

◆ Multi-directional return: Charging treasure can be returned in two directions.

◆ Intelligent charging management: The main control controls the number of charging treasures according to the charging current.

1.3 Circuit Block Diagram Circuit Block Diagram

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2. Input Specifications Input Specifications

2.1 AC Input Voltage Range AC Input Voltage Range

parameter name	Unit	Input specification range Input SPEC.			Remarks Note
		Range			
		Minimum Min.	Nominal Typ.	Max Max.	
Input voltage	V _{DC}	100V	220V	240V	50~60HZ

2.2 AC input current (when charging) range Input Current Range

	Unit	Input specification range Output SPEC.	
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parameter name		Range			Remarks Note
		Minimum Min.	Nominal Typ.	Max Max.	
recharging current	A		2		Change with equipment operating conditions

3. Output Specifications

3.1 Output Specifications Parameters

3.1.1 5V Output Specifications 5V Output Specifications

parameter name	Unit	Output specification range Output SPEC.			Remarks Note
		Range			
		Minimum Min.	Nominal Typ.	Max Max.	
The output voltage	V _{DC}	4.6	5.0	5.4	

3.1.2 Voice output

no

3.1.3 led output

1, backlight led light up to facilitate the QR code scan code.

2. The total number of indicator lights is 20 (when the battery is empty or the power is less than 60%, the indicator status is long and off. When the battery is above 60%, the indicator light is on, and the indicator status is blinking during battery lending. ,

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completely lend a few seconds after flashing, the light is off).

4 Operation Method Using Method of Operation

4.1 Device Open Method

Plug the power adapter into the 220v socket and press the rear circular switch to the “-” state to operate the device.

4.2 Device Shutdown Method Instruction Close Methods

Unplug the adapter directly or press the rear circular switch to the “o” state. The external power supply is turned off and the operation is stopped.

4.3 Lending process

After scanning the code, the background communicates with the product master through the 4g module. After the communication is successful, the master unlocks the charging treasure to be lent out, and the unlocked charging treasure pops up, and the LED flashing prompt is accompanied by the slot.

4.4 Return process

Insert the charging treasure that needs to be returned into the charging compartment. After the return is successful, the slot is always lit.

5, protection function specification Protection Function Specification

5.1 Overcurrent Protection Over-Current Protection

When mcu detects that the 5v output charging current is greater than the overcurrent value, mcu turns off the output, and removes the overload to return to normal.

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5.2 Short Circuit Protection Short-Circuit Protection

When mcu detects the 5v output charge short circuit, mcu turns off the output, removes the overload, and it returns to normal.

6. Product structure

6.1 Product Appearance Product Appearance



7. Environmental Requirements

7.1 Temperature Temperature

- Working environment temperature: $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ (no condensation and icing state).
- Storage ambient temperature: $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$ (no condensation and icing state).

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7.2 Humidity Humidity

- Working environment humidity: 20 ~ 80%.
- Storage environment humidity: 10 ~ 90%.

7.3 Special Requirements

Storage and working environments should not be acidic, alkaline or other chemically corrosive gases.

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.