

Serial number	Indicator item	Specification parameters	Remark
1	Rated AC operating voltage	220±20%VAC	
2	Rated AC operating current	16A	
3	Operating frequency	47-63HZ	
4	Residual current rated operating current	M22mA	
5	Duty ratio	26.67%@1KHZ	

5. Current Setting Steps

- 1 Insert the control box 16A plug into the 16A socket that meets the national standard. The control box performs a self-test (the lock is with a constant flashing in the indicator). In the wake of the self-test, it will enter the standby state (no gun inserted).
- 2 In the standby state, press and hold the touch for 2 seconds to enter the current setting, and the corresponding current indicator flashes.
- 3 Click the touch area to select the desired current, and accordingly the selected current indicator flashes.
- 4 After selecting the desired current, press and hold the touch for 2 seconds to confirm the completion of the setting. The control board will save the current value, initialize and run with the newly-set current value.

6. Precautions for the Use

- 6.1 Please ensure personal safety and prevent electric shock.
- 6.2 Use a power cord that meets national standards.

7. Display Analysis

1	28°C	12.1V	⏏
2	229V	16A	3.3KW
3	16A	01:07:38	4
		3.3KWh	5

1. 28°C real-time temperature display; 12.1V signal voltage; ground line display
 2. 229V power supply voltage; 16A charging current; 3.3KW single cumulative charging degree
 3. 16A: select the 16A level
 4. 01:07:38: single cumulative charging time
 5. 3.3KWh: average hourly charging degree

1. Basic Product Description

- 1.1 Product definition: circuit board in the "control box on cable" electric vehicle AC charging mode 2 and connection mode B.
- 1.2 Product model: internal model TS-QB05 (circuit board identification only). The user adopts the "user end nominal model" when ordering ("user end nominal model" is designated by the user, corresponding to the unique software solution and hardware circuit)
- 1.3 "Basic technical conditions of automotive electrical equipment" block diagram

2. Use Conditions

Project	Parameter	Unit
Working temperature	-30~55t	
Operating humidity range	3-95 %RH	
Storage temperature range	-50~85	
Elevation	less than 2000 m	
Rating of protection		
Flame retardant rating	UL94V0	
Drop impact test	GB/T2423.8-2008	

3. Protection Box Functions

- 3.1 Overvoltage protection
- 3.2 Undervoltage protection
- 3.3 Overcurrent protection
- 3.4 Electricity leakage protection
- 3.5 Grounding protection: Continuous monitoring of grounding protection
- 3.6 Protection in case the ground line is not connected
- 3.7 Lightning protection
- 3.8 Over-temperature protection
- 3.9 Power regulation 8A, 10A, 13A, 16A (touch adjustment)

4. Basic Parameter Setting

Basic parameter setting

[Note: Unless otherwise specified, the environmental temperature of the following parameters is 25°C]

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Electric Vehicle Charging Gun Operation Instruction

8. Indicator Definition and Action Scheme

The corresponding status of the control board is displayed as follows:

Fault codes and light meaning			
Color	Green	Blue	Red
Standby	On	Off	Off
Connecting	Flash	Off	Off
Charging	On	Flash	Off
End of charging	Off	On	Off
Overtemperature (E1)	Off	Off	Flashes once and stops for 2 seconds
Undervoltage (E2)	Off	Off	Flashes twice and stops for 2 seconds
Overvoltage (E3)	Off	Off	Flashes three times and stops for 2 seconds
Grounding (E4)	Off	Off	Flashes four times and stops for 2 seconds
Temporary overcurrent (E5)	Off	Off	Flashes five times and stops for 2 seconds
Permanent Overcurrent (E6)	Off	Off	Flashes six times and stops for 2 seconds
Leakage (E7)	Off	Off	Flashes seven times and stops for 2 seconds
Relay adhesion (E8)	Off	Off	Flashes eight times and stops for 2 seconds
CP Anomaly (E9)	Off	Off	Flashes nine times and stops for 2 seconds
Emergency stop (E10)	Off	Off	Flashes ten times and stops for 2 seconds
Small current stop (E11)	Off	Off	Flashes eleven times and stops for 2 seconds
Plug overtemperature (E12)	Off	Off	Flashes twelve times and stops for 2 seconds

Note: The flashing frequency during protection is 0.5 seconds on and 0.5 seconds off, and after the number of flashes is reached, it flashes again at intervals of 2 seconds

Regulating the current:

- (1) Power on first (do not plug it into the vehicle).
- (2) Long press 3s to enter the secondary menu, single point to select the current switch power
Long press 3s to confirm, then select A number in a single point, and press and hold 3s to lock the current.
- (3) Plug it into the vehicle again.



Charging reservation process:

- (1) Power on first (do not plug it into the vehicle).
- (2) Then long press 3s to enter the secondary menu and select the charging reservation time.
Long press 3s to enter the charging reservation setting; press the button "charge after 1 hour" once, long press 3s to lock the setting.
- (3) Plug it into the vehicle and wait for the countdown to conduct automatic charging
(the function can be achieved only through the built-in reservation function in the vehicle)

