

### Feature

Charging plug meet IEC 621962-2 standard Control box meet IEC 61851 control principle Excellent protection performance, protection grade IP65-Working condition Operating temperature:-20 $^{\circ}$ C to+55 $^{\circ}$ C

## **Mechanical Properties**

Mechanical life: no-load plug in/pull out>10000times · Impact of external force: can afford 1m drop and 2T vehicle run over pressure

## **Electric Performance**

Rated voltage and current: 415V AC 6A 8A 10A 13A 16A

- · TypeA+DC6mA
- · Insulation Resistance:>1000MD (DC500V)
- · Terminal Temperature Rise:< 50K

### **Control Box Function**

- · Leakage protection (restart recover).
- $\cdot$  Over voltage under-voltage protection (self-checking recover).
- · Lightning protection.
- $\cdot$  Over current protection.
- · Overheat protection.
- · Communication protection.

## **Charger Cord**

Specification:5G2.5mm<sup>2</sup>+1\*0.75mm<sup>2</sup>

### **Meets Standards**

IEC 621962-2

#### Cautions

- $\cdot\,$  Do not step on the cable, do not pull it, do not fold it up and do not knot it.
- $\cdot\,$  Do not drop the control unit or put heavy things on it.
- $\cdot\,$  Do not place the charging cable near high-temperature objects.
- $\cdot\,$  Do not place the unit in the car or in a closed room while charging.
- $\cdot$  Do not use the device in extreme temperatures (normal operating range (-20  $^\circ C$  to+55  $^\circ C$ ).
- The power supply input cable should have at least 5G2.5mm<sup>2</sup>, With a standard CEE plug. It is proposed to complete the distribution of electricity by professionals.
- Make sure that the charging plug, the cable and the control box are free from any signs of Scratches, rust, cracks, etc.
- · Do not charge if the power outlet is damaged, rusted, cracked or loosely connected.
- · Before charging, make sure the power plug and outlet are compatible.
- $\cdot$  The Green Power LED indicator is always on when the battery is fully charged.

#### Warnings

- · Use only on the mains with fault current circuit breaker.
- $\cdot$  Do not use this product if the EV charging cable is damaged.
- $\cdot\,$  For use with EV charging only.
- · The product must be grounded.
- $\cdot\,$  Do not use this unit with an extension cord or adapter.
- $\cdot\,$  Do not insert any fingers into the charging plug.
- · The unit contains no user serviceable parts. Do not try to repair or service the device yourself.
- If the unit does not work properly in accordance with the operating instructions, do not use this unit. Contact your dealer for a repair or replacement.
- Use the product under normal away from high temperature erosive materials or ignition source.
- · Do not contact metal conductor to prevent electric shock accident.
- Product shell is made of thermoplastic, please do not pound it to avoid reducing performances.

### Led Screen Description:



#### Touch current adjustable function

Current adjustment: 6A 8A 10A 13A 16A adjustment, touch switch "A" can switch

- 1. Turn on the power supply at the plug end, you can use the key "A" to touch the switching current and switch one gear at a time;
- 2. Check the current gear displayed on the display screen, confirm that the corresponding current gear is switched, and plug the gun head into the charging port on the car side to perform the set current for charging; The control box can only be touch-switched when it is waiting for connection; In the charging process, the charging is completed or the failure stage, the touch switch operation is invalid.

Memory function: After the set current gear is powered off, the memory can be saved, and the current gear before the power off can be restored after the next power on.

hardware component					
Key type		Delay Time			
Tap the delay key	Set the delay charging time, each time + 1 hour, with a maximum delay of 15 hours		0.1s		
Long press the time key	Set the delay charging time, automatically + 1 hour every 2S, with a maximum delay of 15 hours		2s		
Long press the delay key	Clear the historical accumulated power and reset it to zero		5s		
Status type	Set value	Action state	Delay Time		
Charging control	Voltage value of test point 1: 6 ± 0.8V	The relay closes and enters the charging state	0.1s		
	Voltage value of test point 1:9 ± 0.8V	After charging, the relay is disconnected	0.1s		
	Voltage value of test point 1: 12 ± 0.8V	The socket is not connected and the relay is disconnected	0.1s		
	Voltage value of test point 1: others	Communication failure, relay disconnected	0.1s		
Grounding	Grounding				
control	Ungrounded				
Overvoltage and undervoltage	Line voltage ≥ 456V	The relay is disconnected. When it drops to 445±5V, the relay is closed and the cycle is infinite			
	Line voltage ≤ 147V	Relay rises to 165±5V, to be closed, to be closed			
	The line voltage is within the range of 147 $\sim$ 456V	The relay closes and enters the charging state	1s		
Overcurrent protection le=8;10;13;16;2 5;32	The user sets the charging current IE and line current I. When ie + 8 > I > ie + 4, Lasting for 5S	When the relay is disconnected, it will automatically recover after 10s. If it is still overcurrent after 3 cycles, it will be permanently disconnected	5s		

	The user sets the charging current IE and line current I. When I > ie + 8,Lasting	The relay is permanently disconnected	5s
	for 1s		
Electric leakage	Leakage current>AC30mA or>DC6mA	The relay is disconnected and automatically recovers after 5min	1s
	There is no leakage in the line	The relay closes and enters the charging state	0.1s
Power on	Self check normal	The relay closes and enters the charging state	1s
self-test	BIT Fault	Relay off	0.1s

# The equipment status is shown in the following table:

Number	Functional status	Definition description
1	Initial state (the blue bar is always on)	Power on self-test or reset
2	To be connected (the blue bar is always on)	The voltage of test point 1 is $9 \pm 0.8V$
3	Normal charging (green bar flashes)	The voltage of detection point 1 is 6 $\pm$ 0.8V, and the relay is closed
4	Charging complete (the green bar is always on)	
5	Over temperature (red bar flashes once + error code 001)	When the temperature is more than 85 $^\circ\!C$ , disconnect the relay, wait until the temperature is less than 65 $^\circ\!C$ , and then turn on the charging
6	Undervoltage (red bar flashes twice + error code 002)	Voltage <147V
7	Overpressure (red bar flashes 3 times + error code 003)	Voltage>456V
8	Overcurrent (red bar flashes 5 times + error code 005)	When the line current is ie $+ 4 < I \le ie + 8$ , disconnect the relay for 5S, restart automatically after 10s, and repeat the permanent disconnection for three times. When I > ie + 8, the relay is disconnected and the charging is over
9	Electric leakage (red bar flashes 7 times + error code 007)	The relay is disconnected and needs to be powered on again after troubleshooting before the relay can be closed
10	Abnormal communication (red bar flashes 9 times + error code 009)	The voltage of detection point 1 is 9.8v < U < 11.2V; 6.8V <u<8.2v; 12.8v<u="" is<br="" or="" relay="" the="" u<5.2v;="">disconnected</u<8.2v;>