	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1


Changes /Revision:

<input type="checkbox"/> Change <input type="checkbox"/> Revision	Date	Content	Edit	Approver
<input type="checkbox"/> Change <input type="checkbox"/> Revision				
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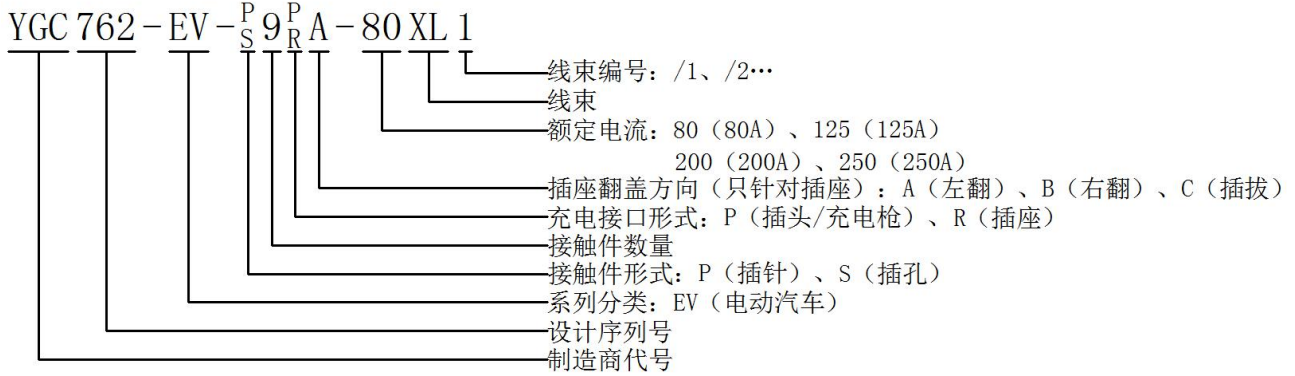
No.	Name	Department	Post	Contact way
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Form number	department	page number
J3-7.3-48	technique center	2Page 1 of 111

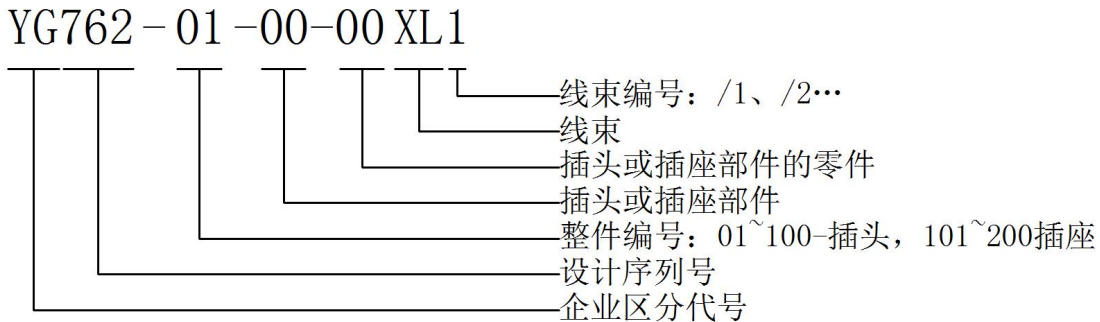
	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

## 1. YG 762 DC vehicle inlet model naming rules

### 1.1.1. Naming convention




### 1.1.2. Name specification for wire harness product number:



## 2. YG 762 DC vehicle inlet model details:

No.	Name	Identification of product	Port wiring specification (mm <sup>2</sup> )								Ingredients package code	
			DC+	DC-	PE	A+	A-	CC1	CC2	S+		S-
1	YGC762-EV-S9RA-80 receptacle	YG762-101-00-00	25	25	25	4	4	0.75	0.75	0.75	0.75	113990000727
2	YGC762-EV-S9RA-80 receptacle	YG762-101-00-00	25	25	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000726
3	YGC762-EV-S9RA-80 receptacle	YG762-101-00-00	25	25	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000725
4	YGC762-EV-S9RA-80 receptacle	YG762-101-00-00	25	25	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000724
5	The YGC762-EV-S9 RB-80 receptacle	YG762-102-00-00	25	25	25	4	4	0.75	0.75	0.75	0.75	113990000727

Form number	department	page number
J3-7.3-48	technique center	3Page 1 of 111


	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

6	The YGC762-EV-S 9 RB-80 receptacle	YG762-102-00-00	25	25	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000726
7	The YGC762-EV-S 9 RB-80 receptacle	YG762-102-00-00	25	25	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000725
8	The YGC762-EV-S 9 RB-80 receptacle	YG762-102-00-00	25	25	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000724
9	YGC762-EV-S9RA -125 receptacle	YG762-103-00-00	35	35	25	4	4	0.75	0.75	0.75	0.75	113990000723
10	YGC762-EV-S9RA -125 receptacle	YG762-103-00-00	35	35	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000722
11	YGC762-EV-S9RA -125 receptacle	YG762-103-00-00	35	35	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000721
12	YGC762-EV-S9RA -125 receptacle	YG762-103-00-00	35	35	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000720
13	YGC762-EV-S 9 RB-125 receptacle	YG762-104-00-00	35	35	25	4	4	0.75	0.75	0.75	0.75	113990000723
14	YGC762-EV-S 9 RB-125 receptacle	YG762-104-00-00	35	35	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000722
15	YGC762-EV-S 9 RB-125 receptacle	YG762-104-00-00	35	35	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000721
16	YGC762-EV-S 9 RB-125 receptacle	YG762-104-00-00	35	35	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000720
17	YGC762-EV-S9RA -200 receptacle	YG762-105-00-00	50	50	25	4	4	0.75	0.75	0.75	0.75	113990000719
18	YGC762-EV-S9RA -200 receptacle	YG762-105-00-00	50	50	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000718
19	YGC762-EV-S9RA -200 receptacle	YG762-105-00-00	50	50	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000717
20	YGC762-EV-S9RA -200 receptacle	YG762-105-00-00	50	50	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000716
21	YGC762-EV-S 9 RB-200 receptacle	YG762-106-00-00	50	50	25	4	4	0.75	0.75	0.75	0.75	113990000719
22	YGC762-EV-S 9 RB-200 receptacle	YG762-106-00-00	50	50	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000718
23	YGC762-EV-S 9 RB-200 receptacle	YG762-106-00-00	50	50	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000717
24	YGC762-EV-S 9 RB-200 receptacle	YG762-106-00-00	50	50	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000716
25	YGC762-EV-S9RA -250 receptacle	YG762-107-00-00	70	70	25	4	4	0.75	0.75	0.75	0.75	113990000761
26	YGC762-EV-S9RA -250 receptacle	YG762-107-00-00	70	70	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000760
27	YGC762-EV-S9RA -250 receptacle	YG762-107-00-00	70	70	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000759
28	YGC762-EV-S9RA -250 receptacle	YG762-107-00-00	70	70	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000758
29	YGC762-EV-S 9 RB-250 receptacle	YG762-108-00-00	70	70	25	4	4	0.75	0.75	0.75	0.75	113990000761
30	YGC762-EV-S 9 RB-250 receptacle	YG762-108-00-00	70	70	25	2.5	2.5	0.75	0.75	0.75	0.75	113990000760
31	YGC762-EV-S 9 RB-250 receptacle	YG762-108-00-00	70	70	25	1.5	1.5	0.75	0.75	0.75	0.75	113990000759
32	YGC762-EV-S 9 RB-250 receptacle	YG762-108-00-00	70	70	25	0.75	0.75	0.75	0.75	0.75	0.75	113990000758

**Adapt cable**

No.	Adapt cable specifications	Number of cable core	OD (mm)	Standard
1	0.75mm <sup>2</sup> Non-shielding	1	Φ1.8±0.1	DIN72551-6/ISO6722
2	1mm <sup>2</sup> Non-shielding	1	Φ2±0.1	DIN72551-6/ISO6722
3	1.5mm <sup>2</sup> Non-shielding	1	Φ2.3±0.1	DIN72551-6/ISO6722
4	2.5mm <sup>2</sup> Non-shielding	1	Φ3.5±0.15	Q/CT1037-2016

Form number	department	page number
J3-7. 3-48	technique center	4Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

5	4mm <sup>2</sup> Non-shielding	1	Φ4.5±0.15	Q/CT1037-2016
6	25mm <sup>2</sup> Non-shielding	1	Φ10.2±0.2	Q/CT1037-2016
7	35mm <sup>2</sup> Non-shielding	1	Φ11.5±0.2	Q/CT1037-2016
8	50mm <sup>2</sup> Non-shielding	1	Φ13.5±0.3	Q/CT1037-2016
9	70mm <sup>2</sup> Non-shielding	1	Φ15.5±0.3	Q/CT1037-2016

#### Attention

- ★ receptacle body and ingredients package matching order, matching ratio: 1:1;
- ★ The above is the general product model, wiring, please choose according to the line diameter requirements, if there is any customized requirements, please consult our company;
- ★ A + / A - / CC1 / CC2 / S + / S - select 0.75mm<sup>2</sup>Line when you can use 1mm<sup>2</sup>replace;
- ★ Cable harness for customized products need to be applied according to the actual specific model, consult our company for details;
- ★ 250A receptacle optional 80mm<sup>2</sup> matching package, model: 1113990000761 / 113990000760 / 113990000759 / 113990000758 (according to A + / A -), matching ratio: 1:1.

### 3. Technical parameters

#### 3.1 Electrical parameters

Port definition	DC±				PE	A±	CC1	CC2	S±
Wiring specification (unit: mm <sup>2</sup> )	25	35	50	70	25	0.75~4	0.75	0.75	0.75
Contact Terminal Diameter (mm)	Φ12				Φ6	Φ3	Φ3	Φ3	Φ3
Rated Operating Voltage (DC)	750V/1000V				/	0~30V	0~30V	0~30V	0~30V
Rated Operating current (DC)	80A	125A	200A	250A	/	2~20A	2A	2A	2A
Contact resistance	≤0.3mΩ				≤0.4mΩ	≤3mΩ			
Insulation resistance	The insulation resistance between any adjacent contact pair and between any contact pair and the enclosure shall be 2000 MΩ, test voltage DC 1000V± 50V; (no required between CC1 and PE)								
Pressure withstand (50Hz, AC normal)	Test after the receptacle is wired: ① Resistance voltage between DC + and DC-3000V AC 1min; ② DC +, DC-and PE, S +, S-, CC1, CC2, A +, A-resistance voltage 1500V AC 1min; ③ PE and S +, S-, CC2, A +, A-resistance voltage 1500V AC 1min; ④ S +, S-, CC2, CC1, A +, A-two mutual voltage resistance of 1500V AC 1min								

#### 3.2 Mechanical performance parameters

Service life: 10000 times

Plug and pull force: 140N

Lock-in force: 200N

#### 3.3 Environmental performance parameters

Before insertion: IP54

**After insertion: IP55 (head, seat connection position) IP67 (tail of receptacle, please pay attention to avoid tail wiring bending radius <6x cable OD)**

Ambient temperature: -30°C ~ + 50°C

Temperature rise: 50K

#### 3.4 Materials


Housing: Engineering plastics (temperature resistant PA66 or temperature resistant PC)

Terminal: copper

Seals: silicone rubber or elastic

Flame retardant grade of insulation materials: UL94 V-0

Form number	department	page number
J3-7. 3-48	technique center	5Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

Environmental protection: meet the ROHS 2.0

### 3.5. Main implementation standards

GB / T 18487.1-2015 EVs-Part 1: General Requirements

GB / T 20234.1-2015 Connected devices for conductive charging of electric vehicles-Part 1: General Requirements

GB / T 20234.3-2015 Connections for Electric Vehicle-Part 3: DC Charging Interface


### 3.6 Function definition of each terminal:

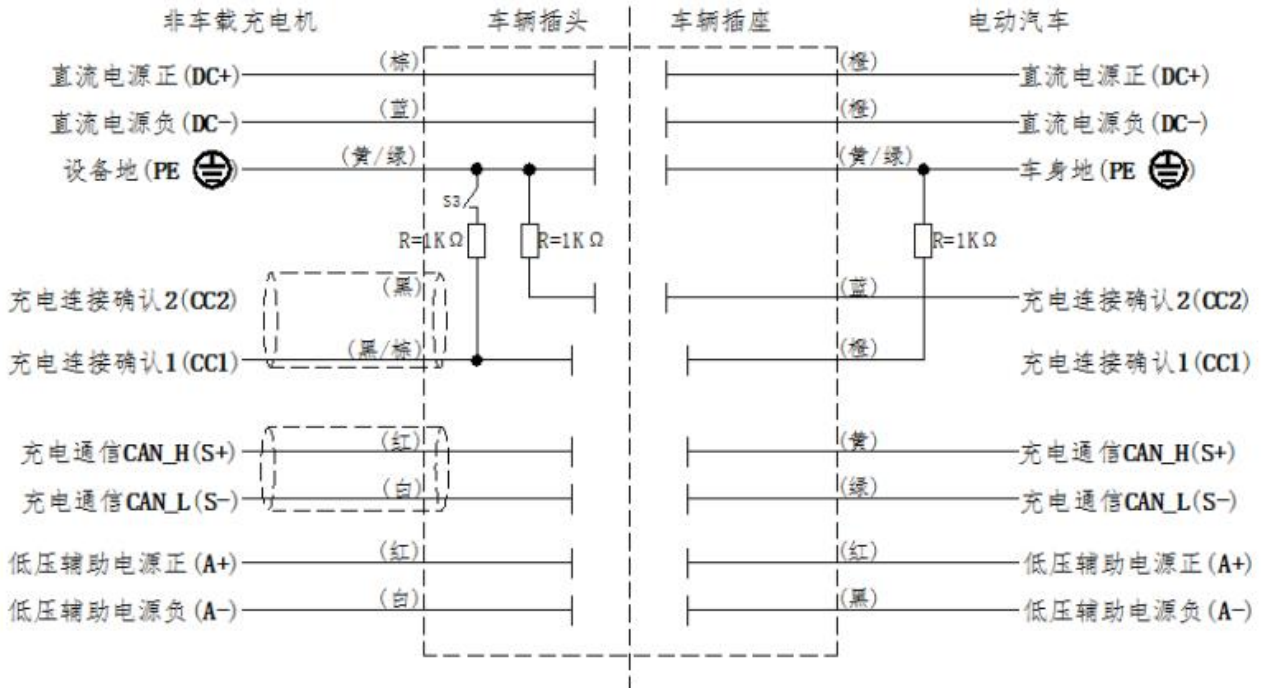
No.	Terminal identification	Function definition
1	DC+	The DC power supply is positive, and the connected DC power supply is facing the battery cathode
2	DC-	The DC power is negative, connect the DC power is negative and the battery is negative
3	PE⊕	Protective ground (PE), connect to the ground wire of the power supply equipment and the vehicle body ground wire
4	S+	Charging communication CAN _ H, connecting the communication line between non-on-board charger and electric vehicle
5	S-	Charging communication CAN _ L, connecting the communication line between the non-on-board charger and the electric vehicle
6	CC1	Charging connection confirmation 1
7	CC2	Charging connection confirmation 2
8	A+	The low voltage auxiliary power supply is connected to the low voltage auxiliary power supply provided by the non-on-board charger for electric vehicles
9	A-	Low voltage auxiliary power supply is negative, connected to the low voltage auxiliary power supply provided by non-on-board charger for electric vehicles
10	T1+	The temperature sensor is positive on the right side of the DC power supply
11	T1-	The temperature sensor of the DC side is negative
12	T2+	The temperature sensor on the negative side of the DC power supply is positive
13	T2-	The temperature sensor is negative on the negative side

★: The description of the temperature sensor is described below

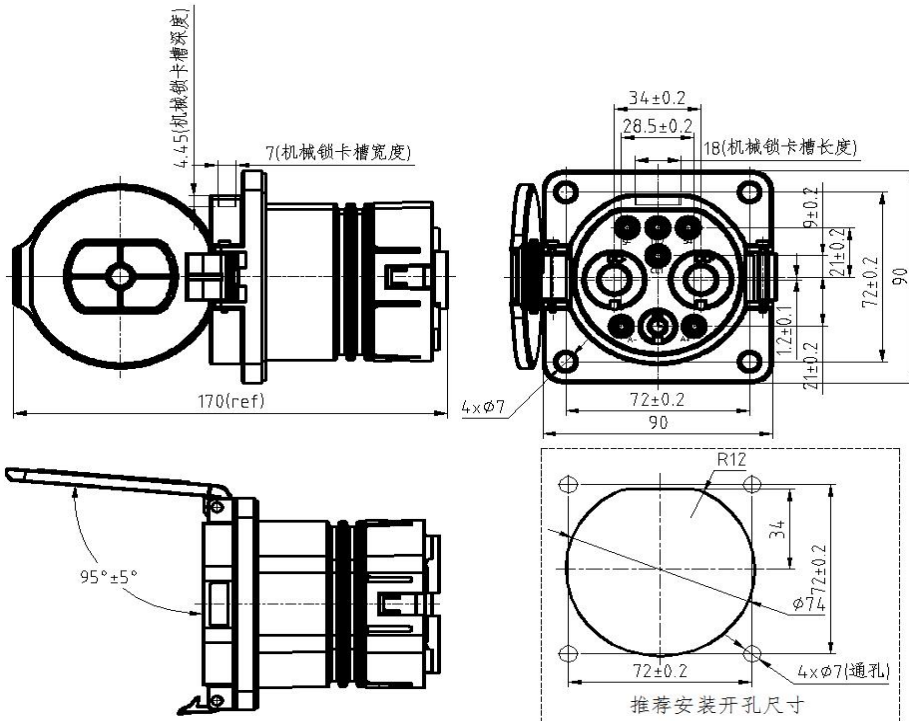
### 4. Electrical schematic diagram:

Form number	department	page number
J3-7.3-48	technique center	6Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1




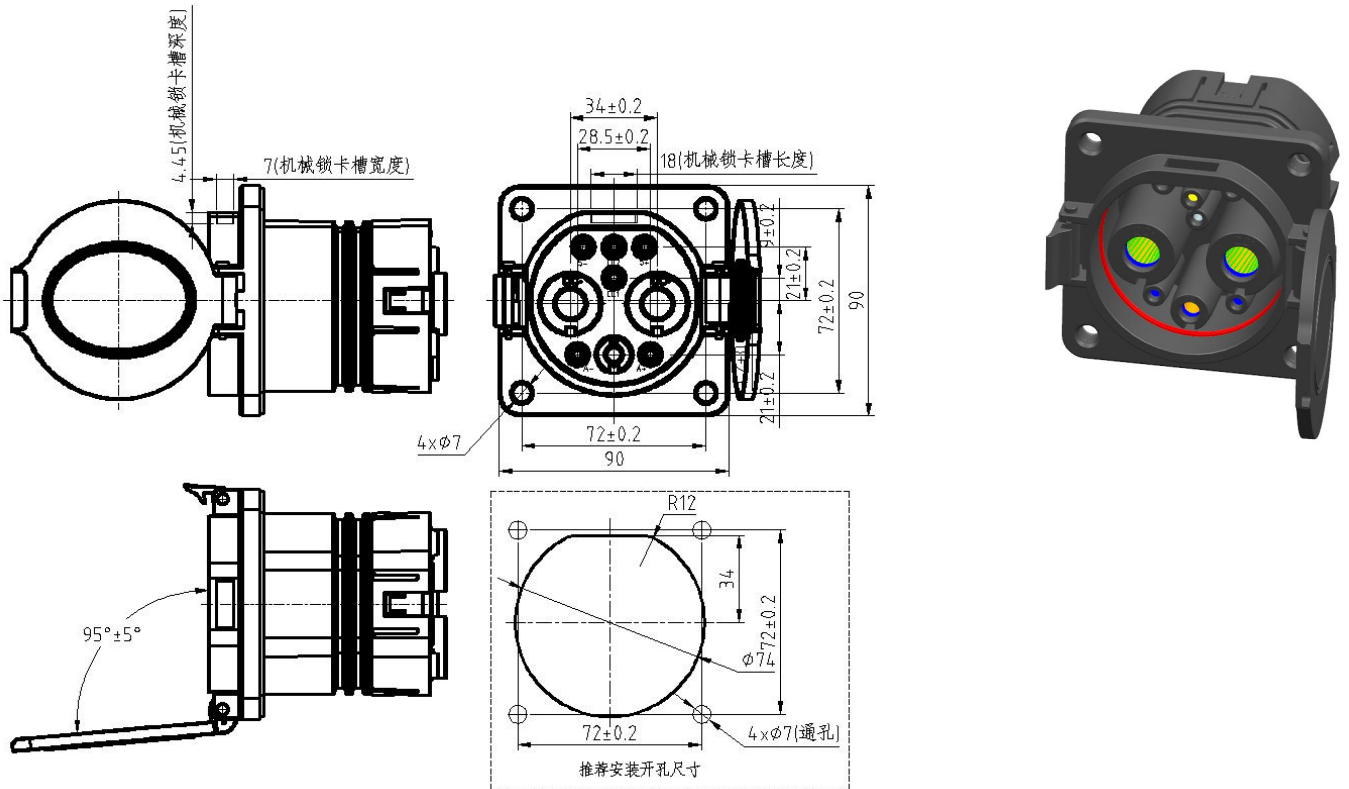
### 5.1 Vehicle Inlet (front mounted, left flip):



### 5.2 Vehicle Inlet (front mounted, right flip cover)

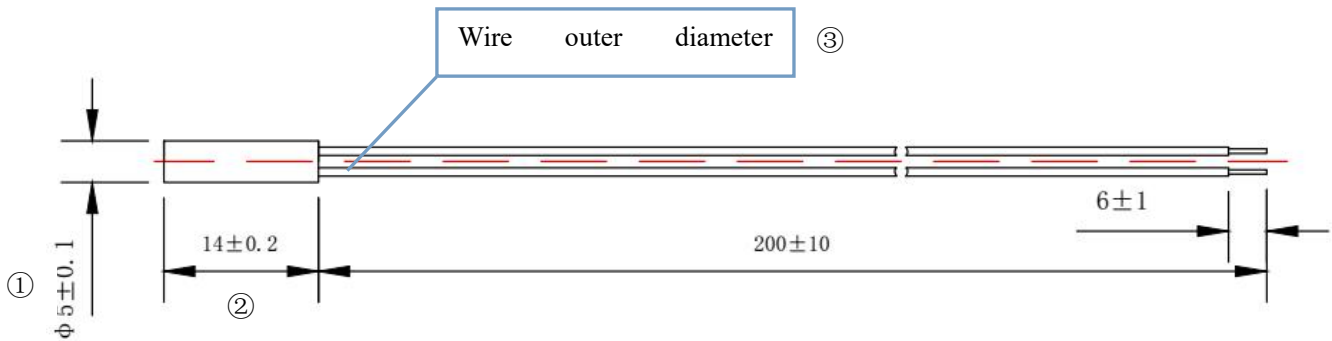
Form number	department	page number
J3-7.3-48	technique center	7Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1



## 6 Accessories of Vehicle Inlet:

### 6.1 NTC / PT temperature Sensor dimensions:




★Note: ①②③ The dimensions must be required, and the remaining dimensions can be customized

★Recommended MT20.NTC01.L382 200 thermal temperature sensor (501021702657), 4 temperature point resistance values are as follows:

温度	对应阻值	精度
0℃	32.75KΩ	±1.0%
25℃	10.00KΩ	
75℃	1.47KΩ	
100℃	0.67KΩ	

Form number	department	page number
J3-7.3-48	technique center	8Page 1 of 111



	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

★Recommended MT20 PT1000A LA380 200 PT1000 temperature sensor (501021702658), 4 temperature point resistance values are as follows:

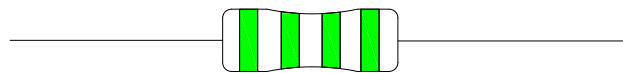
温度	对应阻值	精度
0℃	1000.00 Ω	±0.1%
25℃	1097.34 Ω	
75℃	1289.85 Ω	
100℃	1385.03 Ω	

★See the specifications for details of the above sensor performance;

★According to the standard, two sensors are placed in DC + / DC-, and order with the receptacle. The order ratio is 1:2 (receptacle: temperature sensor).

★ In summary, the sensor performance parameters and wiring length can be customized according to the user requirements.

### 6.21000Ω/1.0W Metal film resistance (pin CMF) (501021701023)



1000Ω / 1.0W 金属膜电阻(引脚CMF)

★ The resistance is placed on the inside of the receptacle, and the ratio of the receptacle is 1:1.

## 7. YG 762 Use method and maintenance method

### 7.1 Use method

7.1.1 The receptacle installation mode is installed in front of the panel, and installed on the charging interface of the car body,

Tightening force shall be 6~8N. M, in the process of locking bolts, use cross diagonal lock, to ensure the receptacle black silicone sealant gasket uniform compression;

7.1.2 When the charging interface is not charged, plug the receptacle cover and keep the charging interface clean;


7.1.3 During the car washing process, prohibit the high-pressure water gun to directly charge at the charging interface;

7.1.4 It is forbidden to use sharp tools to pick the internal reed of the metal terminal;

7.1.5 To avoid arc pulling, live plugging is prohibited;

7.1.6 Charging current is controlled within the rated current, and it is recommended to control

Form number	department	page number
J3-7.3-48	technique center	9Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

within 85%~90% of the rated current;

7.1.7 Before charging, make sure the car stops and stops (according to the requirements of the manufacturer) and check the inside of the vehicle inlet (black plastic cavity)

Whether the body and metal terminal holes) are transferred from foreign bodies, if there are foreign bodies to be cleaned, and then use the charging gun for pre-insertion, if the charging gun can be normally inserted (feel no more than 14 kg force), in addition, the charging interface needs to detect whether the water phenomenon, to ensure the normal plugging and no water before charging;

7.1.8 During the charging process, turn on the temperature sensing and detection function of the BMS DC vehicle inlet;

7.1.9 After charging, close the receptacle cover.

## 7.2 Maintenance method

7.2.1 When the charging gun is inserted and stuck, check whether there is any foreign body drilling in the receptacle hole, and if there is no foreign body after inspection

Normal plug and pull, contact the manufacturer for processing;

7.2.2 When reporting the insulation fault, first ensure that the battery service switch is disconnected, and close the main gate of the car body circuit system when necessary;

Check and check whether the receptacle is leaking. If there is water leakage, use the multimeter to detect the insulation resistance between the terminals (except between PE and CC1), the resistance value of 2000M  $\Omega$  is normal, otherwise contact the manufacturer for treatment;

7.2.3 In case of abnormal charging connection, first make sure that the battery service switch is disconnected, and close the car body circuit system if necessary

For the total gate, detect the resistance value between PE and CC1, if the resistance value is 1000 + / -30  $\Omega$  is normal, otherwise contact


Manufacturer processing;

7.2.4 Wipe and clean the charging interface with alcohol, especially the metal jack inside the receptacle;

## 8. YG 762 DC vehicle inlet announcement information:

Announcement logo	Temperature control device	Electromagnetic lock device	Strong inspection report number	CQC report number
YGC762-EV-S9RA-80	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9R B -80	have	not have	QA16EE1EB1371	QA16XX1EFC341

Form number	department	page number
J3-7. 3-48	technique center	10Page 1 of 111

	Product name	YG 762 DC Vehicle Inlet	Document No.	
	Product model	YG 762 DC Vehicle Inlet	Edition	A 0.1

			QA16EG1EB1371	
YGC762-EV-S9RA-125	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9R B -125	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9RA-200	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9R B -200	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9RA-250	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341
YGC762-EV-S9R B -250	have	not have	QA16EE1EB1371 QA16EG1EB1371	QA16XX1EFC341

Form number	department	page number
J3-7.3-48	technique center	11Page 1 of 111