永 贵 连 接 连 接 专 家

YONGGUI CONNECTION CONECTION EXPERTS

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YONGGUI
Stock Code: 300351

THE2023 version New Energy Interconnection Scheme

PRODUCTS OF ELECTRIC VEHICLE CHARGING SYSTEM

浙江永贵电器股份有限公司
Zhejiang Yonggui Electric Equipment Co.,Ltd

四川永贵科技有限公司
Sichuan Yonggui Science and Technology Co.,Ltd

YONGGUI

Enterprise Culture

People-oriented，efficient，diligence，innovation.

Enterprise Tenet

Always follow the development of market，
always pay attention to customer needs.

Enterprise Philosophy

Integrity，harmony，dedication，creating value for customers.

Enterprise Vision

Committed to becoming an influential connector enterprise.

328
National authorized patent

50
Testing equipment

180
Professional technical research and development personnel

6
Manufacturing and processing centers

COMPANY PROFILE

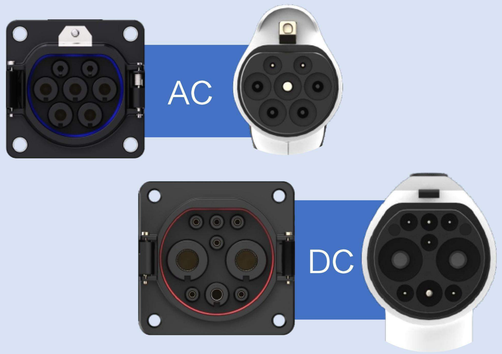
Sichuan Yonggui Science and Technology Co., Ltd was established in 2008. The registered capital one hundred million RMB. It's the subsidiary company of ZhejiangYonggui Electric Equipment Co., Ltd (It has been founded in 1937, and was the connector manufacturer designated by the Ministry of Railways. On September 20, 2012, the company was listed on the Shenzhen Stock Exchange. With stock name: Yonggui Electric Equipment, stock code: 300351).

The company is mainly engaged in the research and development, manufacturing, sales and technical support of all kinds of electrical connectors, connector components and mechanical and electrical products, and has the independent import and export rights of the products. In 2010, the company was recognized as a national high- tech enterprise, among which the high- density photoelectric hybrid transmission electrical connector was included in the national Torch Program project, a number of projects were supported by the national innovation Fund, and obtained 328 national patent authorization and 48 invention patents. So far, the company has developed several kinds of products, which are widely used in rail transportation, oil exploration, communications, industrial equipment, wind power generation, electric vehicles and special defense and other fields.At the same time, the company's products directly or indirectly exported to more than ten countries and regions in the world, won the praise of customers.

The company is located in Science and Technology City of China,Mianyang, Sichuan Province, Science and Technology Park, about 2 kilometers away from Mianyang entrance of Mianyang Highway. Factory construction area is about 81,000 square meters, all kinds of supporting facilities perfect. The company has a team of experts and management team with rich electrical connector expertise, and can provide customers with system solutions of connection and interconnection technology. At the same time, the company's technology center was rated as municipal excellent technology center. The company has passed ISO9000 quality management system certification ISO/TS16949:2009 auto parts Production system certification, ISO/TS22163 rail transportation industry quality management system certification, GJB 9001C Quality Management System certification, ISO14001 Environmental Management system certification, GB/T28001 Occupational Health and Safety Management system certification, EN15085-2 rail transit welding system certification, ISO3834 International welding system certification.

Layout of Products

Standard and Applicable Area

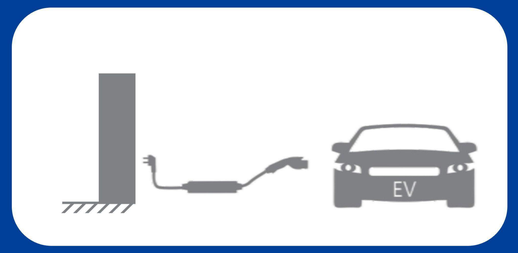


GB/T 20234
China area only

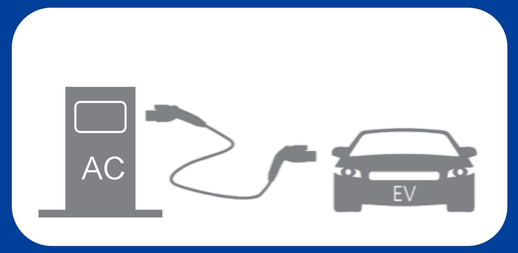
SAE J1772
Suitable for
North America area

IEC 62196
Suitable for
European Union area

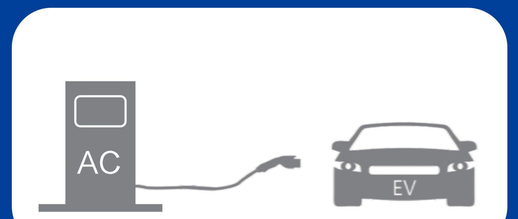
The products of Yonggui cover the following charging applications.



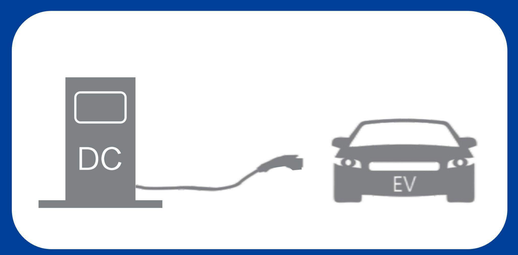
Mode 2 and Case B connection



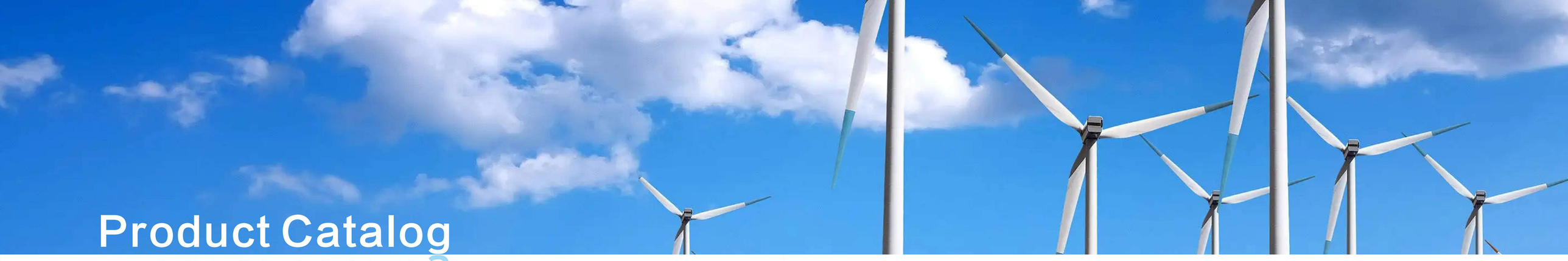
Mode 3 and Case B connection



Mode 3 and Case C connection



Mode 4 and Case C connection



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YG762A DC vehicle connector(GB)

Application Suitable for the corresponding standard DC charging equipment of China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.

Technical Data Sheet						
Project/Specification	80A Series(Cold pressing)	125A Series(Cold pressing)	160A Series(Cold pressing)	200A Series(Cold pressing)	250A Series(Cold pressing)	250A Series(ultrasonic welding)
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015					
Mode	Mode4,case C connection					
Rated Voltage	750V/1000V DC					
Rated Current	80A DC	125A DC	160A DC	200A DC	250A DC	250A DC
Voltage Resistance	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+/DC- and PE/S+/S-/A+/A-≥1500V AC 1min; 3.Between PE and S+/S-/A+/A-≥1500V AC 1min; 4.Any two of S+/S-/A+/A-≥1500V AC 1min; 5.Between DC+/DC- and temperature controller unit≥3500V AC 1min; *Note：a.These three of CC1/CC2/PE are joined together,select an arbitrary contact to test; b.In the above test, the leakage current is required to be less than 5mA.					
Insulation Resistance	1.Between DC+ and DC-≥2000MΩ; 2.Between DC+/DC- and PE/S+/S-/A+/A-≥2000MΩ; 3.Between PE and S+/S-/A+/A-≥2000MΩ; 4.Any two of S+/S-/A+/A-≥2000MΩ; 5.Between DC+/DC- and temperature controller unit≥2000MΩ; *Note：a.These three of CC1/CC2/PE are joined together,select an arbitrary contact to test; b.In the above test, the test voltage is 1000V DC.					
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life	≥10000					
Insertion/withdrawal force	<140N					
Ambient temperature	-30℃ ~+ 50℃					
The type of temperature controlled device (optional)	1.Temperature sensor：PT1000/NTC					
	2.Temperature switch					
Flame retardant rating	UL94 V-0					
Surface material of power contacts	Ag					
OD of cable	Φ32±1mm	Φ36±1mm	Φ36.5±1mm	Φ40±1mm	Φ40±1mm	Φ40±1mm
Cable structure	2x20+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)	2x35+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)	2x50+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)	2x70+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)	2x80+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)	2x70+25+2x4 +2x(2x0.75)(P2) +(7x0.75)(P2)
Applicable model of empty seat	Name		Mode number		Code	
	YG762-201-00-00KR DC Empty Seat		YG762-201-00-00KR		111000502155	
	YG762-201-00-00KR/01 DC Empty Seat (with a normally open feedback switch)		YG762-201-00-00KR/01		111000502203	

YG1352A DC vehicle connector(GB HPC)

Application Suitable for the corresponding standard DC charging equipment(With a suitable liquid cooling system) of China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.

Technical Data Sheet			
Reference Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015		
Mode	Mode4,case C connection		
Rated Voltage	750V/1000V DC		
Rated Current	500A DC		
Voltage Resistance	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+/DC- and PE/S+/S-/A+/A-≥1500V AC 1min; 3.Between PE and S+/S-/A+/A-≥1500V AC 1min; 4.Any two of S+/S-/A+/A-≥1500V AC 1min; 5.Between DC+/DC- and temperature controller unit≥3500V AC 1min; *Note：a.These three of CC1/CC2/PE are joined together,select an arbitrary contact to test; b.In the above test, the leakage current is required to be less than 5mA.		
Insulation Resistance	1.Between DC+ and DC-≥2000MΩ; 2.Between DC+/DC- and PE/S+/S-/A+/A-≥2000MΩ; 3.Between PE and S+/S-/A+/A-≥2000MΩ; 4.Any two of S+/S-/A+/A-≥2000MΩ; 5.Between DC+/DC- and temperature controller unit≥2000MΩ; *Note：a.These three of CC1/CC2/PE are joined together,select an arbitrary contact to test; b.In the above test, the test voltage is 1000V DC.		
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）		
Cycles life	≥10000		
Insertion/withdrawal force	<140N		
Ambient temperature	-30℃ ~+ 50℃		
The type of temperature sensor	PT1000		
Flame retardant rating	UL94 V-0		
Surface material of power contacts	Ag		
OD of cable	Φ24±0.6mm		
Bending radius	Under normal flow conditions, the minimum radius is 10D；in the case of storage,the minimum radius is 5D.		
Cooling circuit	One line in, one line out		
Size of cooling pipe	Inside diameter：Φ4.5mm; Outside diameter:Φ6.5mm		
Minimum flow rate	1L/min		
Maximum working pressure	2.5Bar		
Cooling medium	Aqueous solution of ethylene glycol		
Temperature requirements for the medium	≤ Ambient temperature +5° C		
Applicable model of empty seat	Name	Mode number	Code
	YG762-201-00-00KR DC Empty Seat	YG762-201-00-00KR	111000502155
	YG762-201-00-00KR/01 DC Empty Seat (with a normally open feedback switch)	YG762-201-00-00KR/01	111000502203

YG1403 DC vehicle connector(CCS2)

Application Suitable for the corresponding standard DC charging equipment of European Union area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.

Technical Data Sheet			
Project/Specification	80A Series	125A Series	200A Series
Standard	IEC 62196-1 IEC 62196-3		
Mode	Mode 4, Case C connection		
Rated Voltage	1000V DC		
Rated Current	80A	125A	200A
Voltage Resistance	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+/DC- and PE≥3500V AC 1min;		
Insulation Resistance	1.Between DC+ and DC-≥500MΩ；1000V DC 2.Between DC+/DC- and PE≥500MΩ；1000V DC		
Degree of protection	Overall performance：IP44 Electrical part：IP67 （Except the interface with socket）		
Cycles life	≥10000		
Insertion/withdrawal force	＜100N		
Ambient temperature	-30℃~50℃		
The type of temperature sensor	Pt1000 / NTC（Optional）		
Flame retardant rating	UL94 V-0		
Surface material of power contacts	Ag		
OD of cable	Φ25±1mm	Φ27±1mm	Φ34.5±1mm
Cable structure	2×25+1×16+(2×0.75)(P2) +2×(2×0.75)	2×35+1×25+(2×0.75)(P2) +2×(2×0.75)	2×70+1x25+(2×0.75)(P2) +2×(2×0.75)
Applicable model of empty seat	Name	Mode number	Code
	YG1403Integrated DC empty seat assembly(CCS2) Mounting screw：M6×25	YG1403-103-00-00KR	111009802241

YG1403 DC vehicle connector(CCS2 natural cooling)

Customized services:

1. Customize customer logo
2. Customized product color matching

Technical Data Sheet			
Project/Specification	80A	125A	200A
Standard	IEC 62196-1 IEC 62196-3		
Mode	Mode 4, Case C connection		
Rated voltage	1000V DC		
Rated current	80A	125A	200A
Voltage resistance	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+/DC- and PE≥3500V AC 1min;		
Insulation resistance	1.Between DC+ and DC-≥500MΩ；1000V DC 2.Between DC+/DC- and PE≥500MΩ；1000V DC		
Degree of protection	Overall performance：IP44 Electrical part：IP67 （Except the interface with socket）		
Cycles life	≥10000次		
Insertion/withdrawal force	＜100N		
Ambient temperature	-30°C~50°C		
Temperature Sensor	PT1000 / NTC（Optional）		
Flame retardant rating	UL 94 V-0		
Surace material of power contacts	Ag		
OD of cable	Φ25±1mm	Φ27±1mm	Φ34.5±1mm
Cable structure	2×25+1×16+(2×0.75)(P2) +2×(2×0.75)	2×35+1×25+(2×0.75)(P2) +2×(2×0.75)	2×70+1x25+(2×0.75)(P2) +2×(2×0.75)

YG1403 DC vehicle connector(CCS2 HPC)

Application Suitable for the corresponding standard DC charging equipment(With a suitable liquid cooling system) of European Union area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.

Technical Data Sheet			
Reference Standard	IEC 62196-1 IEC 62196-3 IEC 62196-3-1		
Mode	Mode 4, Case C connection		
Rated Voltage	1000V DC		
Rated Current	600A		
Voltage Resistance	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+/DC- and PE≥3500V AC 1min;		
Insulation Resistance	1.Between DC+ and DC-≥500MΩ; 1000V DC 2.Between DC+/DC- and PE≥500MΩ; 1000V DC		
Degree of protection	Overall performance：IP44 Electrical part：IP67 （Except the interface with socket）		
Cycles life	≥10000		
Insertion/withdrawal force	<100N		
Ambient temperature	-30℃~50℃		
The type of temperature sensor	Pt1000 / NTC（Optional）		
Flame retardant rating	UL94 V-0		
Surface material of power contacts	Ag		
OD of cable	Φ30.5±1mm		
Bending radius	305mm		
Cooling circuit	One line in, Two lines out		
Size of cooling pipe	The inner diameter：Φ6mm（inlet pipe）/Φ10mm（outlet pipe）		
Minimum flow rate	1.8L/min		
Maximum working pressure	2.7 bar		
Cooling medium	A biodegradable compound		
Temperature requirements for the medium	≤ Ambient temperature +5° C		
Applicable model of empty seat	Name	Mode number	Code
	YG1403Integrated DC empty seat assembly(CCS2) Mounting screw：M6×25	YG1403-103-00-00KR	111009802241

CCS2 DC vehicle connector(300A)

Product advantages:

Suitable for V2L applications of electric vehicles according to corresponding standards in the United States

Customized services:

1.Customized Logo
2.Customized product color matching
3.Customized cable type and length

Technical Data Sheet	
Project/Specification	300A
Standard	IEC62196
Mode	Mode 4
Rated voltage	1000V DC
Rated current	300A
Voltage resistance	1.DC+,DC-/PE >3500VAC, leakage current≤10mA 2.DC+/DC->3500VAC, leakage current≤10mA
Insulation resistance	≥10MΩ (500V DC,1Min)
Degree of protection	IP54 (housing IP67)
Cycles life	≥10000
Insertion/withdrawal force	≤100N
Ambient temperature	-30°C~+50°C
Temperature Sensor	PT1000 * 2
Flame retardant rating	UL 94 V-0
Surace material of power contacts	Ag
OD of cable	Φ37.5±1mm
Cable structure	7*35mm²+4*0.75mm² （P2）

CCS1 DC vehicle connector

Product advantages:

Suitable for V2L applications of electric vehicles according to corresponding standards in the United States

Customized services:

1. Customize customer logo
2. Customized product color matching

Technical Data Sheet		
Project/Specification	200A	300A
Standard	SAE J1772	
Mode	Mode4	
Rated voltage	1000V DC	
Rated current	200A	300A
Voltage resistance	1.DC+,DC-/PE >3000VAC, leakage current≤10mA 2.DC+/DC->3000VAC, leakage current≤10mA	
Insulation resistance	≥10M (1000V DC,1Min)	
Degree of protection	UL Type 4	
Cycles life	≥10000	
Insertion/withdrawal force	≤75N	
Ambient temperature	-30°C~+50°C	
Temperature Sensor	PT1000 * 2	
Flame retardant rating	UL 94 V-0	
Surace material of power contacts	Ag	
OD of cable	Ø28.3+/-0.8mm	Ø36.5+/-1.0mm
Cable structure	4x26.7mm2+1x3.31mm2+(2x0.824mm2)(CS) +2x2x0.824mm2(Black)	4x53.5mm2+1x3.31+(2x0.824)(CSCP) +2x2x0.824mm2(Black)

NACS

Product advantages:

1. The connector is light in weight and has a better use experience;
2. The product design is full of technology and futuristic sense;
3. The product wire diameter is thinner and lighter, completely getting rid of the "bulky" label;
4. 12,000 plug and unplug lifespan, more durable;
5. Meet the mud and salt water plug-in and pull-out tests and meet more stringent usage conditions;
6. The PCB board integrates low-voltage signals, making the internal wiring simpler and the assembly more reliable.

Technical Data Sheet	
Project/Specification	600A DC
Standard	NACS IEC 61851-1 IEC 61851-23 IEC 62196-1 IEC 62196-2 IEC 62196-3 IEC 62196-23
Mode	Mode 4, Case C connection
Rated voltage	1000V DC
Rated current	600A DC
Voltage resistance	1. Between HV+ and HV- ≥3500V AC 1min; 2. Between HV+, HV- and GND, CP, and PP respectively,≥1500V AC 1min 3.GND, CP, and PP should be ≥1500V AC 1 min
Insulation resistance	1. Between HV+ and HV- ≥500MΩ (1000V DC); 2. Between HV+, HV- and GND, CP, PP respectively ≥500MΩ (1000V DC) 3.GND, CP, and PP are ≥500MΩ (1000V DC) between each other;
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）
Cycles life	≥10000
Insertion/withdrawal force	＜100N
Ambient temperature	-30°C~50°C
Temperature Sensor	PT1000
Flame retardant rating	UL 94 V-0
OD of cable	Φ32.5±0.5mm
Bending radius	The minimum radius of normal flow is 10D; the minimum storage radius is 5D (coiled line)
Cooling circuit	Two in, two out
Cooling pipe diameter	Liquid inlet pipe (IDΦ6 ODΦ8); Liquid inlet pipe (IDΦ11 ODΦ13)
Minimum flow rate	1.8L/min
Maximum working pressure	2.7Bar
Cooling medium	car cooling oil
Medium temperature	≤ambient temperature+5°C

YG1143 AC vehicle connector

(GB/Mode2 and Case B connection)

Application Suitable for the EV charging in China area, in the condition of mode 2.

Customization
1.The customer's logo.
2.The type and length of cable.
3.The connector has two basical color options(black and white), while supporting the customization of other colors.

Technical Data Sheet			
Project/Specification		10A Series	16A Series
Type of power		Single-phase	Single-phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015	
Mode		Mode 2, Case B connection	
Rated Voltage		220V AC	220V AC
Rated Current		8A AC	13A AC
Voltage Resistance		Between L1/N and PE≥2000V AC 1min.	
Insulation Resistance		Between L1/N and PE≥500MΩ.(*Note：the test voltage is 500V DC.)	
Degree of protection	Connector	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）	
	IC-CPD box	IP67	
Cycles life		≥10000	
Insertion/withdrawal force		<100N	
Ambient temperature		-30℃ ~ +50℃	
Flame retardant rating		UI94 V-0	
Surface material of power contacts		Ag	
OD of cable	Connector	Φ13±0.3mm	Φ13±0.3mm
	Plug	Φ10.5±0.3mm	Φ10.5±0.3mm
Cable structure	Connector	3×1.5+1×0.75	3×2.5+1×0.75
	Plug	3×1.5	3×2.5

YG1143 AC vehicle connector

(GB/Mode3 and Case B/C connection)

Application Suitable for the corresponding standard AC charging equipment of China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.
4.The connector has two basical color options(black and white), while supporting the customization of other colors.

Technical Data Sheet						
Project/Specification	10A Series	16A Series		32A Series		
Type of power	Single-phase	Single-phase	Three-phase	Single-phase	Three-phase	
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015					
Mode	Mode3 and Case B/C connection					
Rated Voltage	250V AC	250V AC	440V AC	250V AC	440V AC	
Rated Current	10A AC	16A AC	16A AC	32A AC	32A AC	
Voltage Resistance	1.Any two of L1/L2/L3/N≥2500V AC 1min; 2.Any two of L1/L2/L3/N≥1500V AC 1min; 3.Between CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note: a.Both of CC/PE are joined together,select an arbitrary contact to test; b.In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance	1.Any two of L1/L2/L3/N/PE/CP≥500MΩ. *Note: a.Both of CC/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 1000V DC.					
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life	≥10000					
Insertion/withdrawal force	<100N					
Ambient temperature	-30℃ ~ +50℃					
Flame retardant rating	UI94 V-0					
Surface material of power contacts	Ag					
OD of cable	Φ11±0.3mm	Φ13±0.3mm	Φ15.5±0.5mm	Φ15.5±0.5mm	Φ19.5±0.5mm	
Cable structure	3×1.5+1×0.75	3×2.5+1×0.75	5×2.5+1×0.75	3×6+1×0.75	5×6+1×0.75	
Applicable model of empty seat	Name			Mode number	Code	
	YG1143-201-00-00KR/01 ACempty seatwith feedbackswitch(normally open type)			YG1143-201-00-00KR/01	111000502204	
	YG1143-201-00-00KR ACempty seat			YG1143-201-00-00KR	111000502154	
	YG1143-201-00-00KR/02 Integrated ACempty seat			YG1143-201-00-00KR/02	111000502206	

YG1348 integrated AC vehicle connector

(GB/Mode2 and Case B connection)

Application Suitable for the EV charging in China area, in the condition of mode 2.

Customization 1.The customer's logo.
2.The type and length of cable.

Technical Data Sheet		
Project/Specification	10A Series	16A Series
Type of power	Single-phase	Single-phase
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015	
Mode	Mode 2, Case B connection	
Rated Voltage	220V AC	220V AC
Rated Current	8A AC	13A AC
Voltage Resistance	Between L1/N and PE≥2000V AC 1min.	
Insulation Resistance	Between L1/N and PE≥500MΩ.(*Note：the test voltage is 500V DC.)	
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67 （Except the interface with socket）	
Cycles life	≥10000	
Insertion/withdrawal force	<100N	
Ambient temperature	-30℃ ~ +50℃	
Flame retardant rating	UL94 V-0	
Surface material of power contacts	Ag	
OD of cable	Φ11±0.3mm	Φ11±0.3mm
Cable structure	3×1.5	3×2.5

YG740D AC vehicle connector

(Type1/Mode3 and Case C connection)

Application Suitable for the corresponding standard AC charging equipment of North America area.

Customization 1.The customer's logo.
2.The type and length of cable.
3.Optional empty seat and protective cover of connector.
4.It is supporting the customization of product colors.

Technical Data Sheet			
Project/Specification	15A Series	20A Series	32A Series
Type of power	Single-phase	Single-phase	Single-phase
Standard	IEC 62196-2 SAE J1772		
Mode	Mode 3, Case C connection		
Rated Voltage	250V AC	250V AC	250V AC
Rated Current	15A AC	20A AC	32A AC
Voltage Resistance	1.Between L1 andN≥2500V AC 1min; 2.Between L1/N and PE≥1500V AC 1min; 3.Between CP and L1/N/PE≥1500V AC 1min; *Note:Both of CS/PE are joined together,select an arbitrary contact to test.		
Insulation Resistance	1.Any two of L1/N/PE/CP≥500MΩ. *Note: a.Both of CS/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 1000V DC.		
Degree of protection	Before insertion：IP44；After insertion：IP54		
Cycles life	≥10000		
Insertion/withdrawal force	<75 N		
Ambient temperature	-30℃ ~ +50℃		
Flame retardant rating	UL94 V-0		
Surface material of power contacts	Ag		
OD of cable	Φ13.6±0.5mm	Φ13.6±0.5mm	Φ16.5±0.5mm
Cable structure	3×14AWG+18AWG	3×14AWG+18AWG	3×10AWG+18AWG
Applicable model of empty seat	Name	Mode number	Code
	YG740D Integrated ACempty seatassembly(Type1) Mounting screw：M6×25	YG740D-101-00-00KR	111009802206

YG1509 AC vehicle connector

(Type2/Mode3 and Case B connection)

Application Suitable for electric vehicle mode 3 charging in EU region

Customization
1.Customized Logo
2.Customized cable type and length
3.Support color customization

Technical Data Sheet						
Project/Specification	13A Series		20A Series		32A Series	
Type of power	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase
Standard	IEC62196-1 IEC62196-2					
Mode	Mode 3, Case B connection					
Rated Voltage	250V AC	480V AC	250V AC	480V AC	250V AC	480V AC
Rated Current	13A AC	13A AC	20A AC	20A AC	32A AC	32A AC
Voltage Resistance	1.Any two of L1/L2/L3/N≥2500V AC 1min; 2.Between PE and L1/L2/L3/N ≥1500V AC 1min: 3.Between CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note: a.Both of PP/PE are ioined together,select an arbitrary contact to test; b.In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance	Any two of L1/L2/L3/N/PE/CP ≥500MΩ. *Note: a.Both of PP/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 1000V DC.					
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life	≥10000					
Insertion/withdrawal force	<100N					
Ambient temperature	-30℃~+50℃					
Flame retardant rating	UL94 V-0					
Surface material of power contacts	Ag					
OD of cable	Φ10.7±0.3mm	Φ13.2±0.4mm	Φ10.7±0.3mm	Φ13.2±0.4mm	Φ13.2±0.4mm	Φ16.5±0.5mm

YG1509 AC vehicle connector

(Type2/Mode3 and Case C connection)

Application Used for AC charging pile of the corresponding standard in the EU region

Customization
1.Customized Logo
2.Customized cable type and length
3.0ptional holder for charging connector and protective cover of connector.
4.Support color customization

Technical Data Sheet						
Project/Specification	13A Series		20A Series		32A Series	
Type of power	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase
Standard	IEC62196-1 IEC62196-2					
Mode	Mode 3, Case C connection					
Rated Voltage	250V AC	480V AC	250V AC	480V AC	250V AC	480V AC
Rated Current	13A AC	13A AC	20A AC	20A AC	32A AC	32A AC
Voltage Resistance	1.Any two of L1/L2/L3/N≥2500V AC 1min; 2.Between PE and L1/L2/L3/N ≥1500V AC 1min: 3.Between CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note: a.Both of PP/PE are ioined together,select an arbitrary contact to test; b.In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance	Any two of L1/L2/L3/N/PE/CP ≥500MΩ. *Note: a.Both of PP/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 1000V DC.					
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life	≥10000					
Insertion/withdrawal force	<100N					
Ambient temperature	-30℃~+50℃					
Flame retardant rating	UL94 V-0					
Surface material of power contacts	Ag					
OD of cable	Φ10.7±0.3mm	Φ13.2±0.4mm	Φ10.7±0.3mm	Φ13.2±0.4mm	Φ13.2±0.4mm	Φ16.5±0.5mm

YG-ENPC AC vehicle connector

(Type2/Mode2)

Product advantages:

1. Protective performance: charging connector IP67 (better than national standard requirements), control box IP67 (higher than similar products on the market);
2. Long service life: 30,000 times of charging durability, 10,000 times of mud and salt water insertion and removal, normal;
3. Lightweight: The number of parts is reduced by 20% and the weight is reduced by 10% compared with the previous generation;
4. Economical: The product price has dropped by 30% compared to the previous generation;
5. Family-oriented: the charging gun and control box are made of mountain ash//Galaxy Array//angular style design, with a simpler appearance and comfortable visual effects and grip;
6. Miniaturization: The size of the charging gun is 15% smaller than similar products, and the control box is 10% smaller than similar products. It is small, exquisite, and easy to use;
7. Ergonomics: The product has beautiful lines, conforms to ergonomics, and has a good grip;
8. Optional customized requirements: altitude 4000m, three-plug temperature detection, relay adhesion detection;
9. Automation: PCBA board wiring is modular, no flying wires, adaptable to automated production.

Technical Data Sheet			
Project/Specification	10A Series		16A Series
Type of power	Single-phase		
Standard	IEC62196-1 IEC62196-2 IEC 62752		
Mode	Mode 2, Case B connection		
Rated voltage	220V AC		220V AC
Rated current	8A AC		8A AC
Voltage resistance	Between L1、N and PE≥4000V DC 1min.		
Insulation resistance	Between L1、N and PE≥500MΩ.(*Note：the test voltage is 500V DC.)		
Degree of protection	Charging connector-Before insertion		IP54；After insertion：IP55 Electrical part：IP67 (Except the interface with socket)
	IP67		
Cycles life	≥10000		
Insertion/withdrawal force	＜100N		
Ambient temperature	-30℃ ~ +50℃		
Flame retardant rating	UL94 V-0		
Surace material of power contacts	Ag		
Cooling circuit	Charging connector End	Φ10±0.3mm	Φ10±0.3mm
	Three-plug end	Φ8.5±0.3mm	Φ8.5±0.3mm
Cable structure	Charging connector End	3×1.5+1×0.75	3×2.5+1×0.75
	Three-plug end	3×1.5	3×2.5

YG762 DC vehicle inlet

Application Suitable for the electric vehicle DC charging in China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.The tail cable can be routed in two ways: 180°/90°
4.The protective cover has the following opening methods: left clamshell/right clamshell.

Technical Data Sheet									
Project/Specification		80A Series		125A Series		200A Series		250A Series	
Standard		GB/T 20234.1-2015 GB/T 20234.3-2015							
Mode		Mode 4							
Rated Voltage		750V/1000V DC							
Rated Current		80A DC		125A DC		200A DC		250A DC	
Voltage Resistance		1.Between DC+ and DC−≥3500V AC 1min; 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥1500V AC 1min; 3.Between PE and S+/S−/CC2/A+/A−≥1500V AC 1min; 4.Any two of S+/S−/CC2/A+/A−≥1500V AC 1min; 5.Between DC+/DC− and temperature controller unit≥3500V AC 1min; *Note:a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the leakage current is required to be less than 5mA.							
Insulation Resistance		1.Between DC+ and DC−≥2000MΩ； 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥2000MΩ； 3.Between PE and S+/S−/CC2/A+/A−≥2000MΩ； 4.Any two of S+/S−/CC2/A+/A−≥2000MΩ； 5.Between DC+/DC− and temperature controller unit≥2000MΩ； *Note：a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the test voltage is 1000V DC.							
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）							
Cycles life		≥10000							
Insertion/withdrawal force		＜140N							
Ambient temperature		−30℃ ~ +50℃							
The type of temperature controlled device(optional)		1.Temperature sensor：PT1000/NTC							
		2.Temperature switch							
Flame retardant rating		UL94 V−0							
Surface material of power contacts		Ag							
Cable Specification	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	DC+/DC−	25mm²	Φ10.2±0.2mm	35mm²	Φ11.5±0.2mm	50mm²	Φ13.5±0.2mm	70mm²	Φ15.5±0.2mm
	PE	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm
	A+/A−	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm
		1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm
		2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm
		4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm
	CC1/CC2/S+/S−	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG1201 DC vehicle inlet

(with a structure for replacing quickly)

Application Suitable for the electric vehicle DC charging in China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.The protective cover has the following opening methods: left clamshell/right clamshell.

Technical Data Sheet								
Project/Specification		80A Series		125A Series		200A Series		250A Series	
Standard		GB/T 20234.1-2015 GB/T 20234.3-2015							
Mode		Mode 4							
Rated Voltage		750V/1000V DC							
Rated Current		80A DC		125A DC		200A DC		250A DC	
Voltage Resistance		1.Between DC+ and DC−≥3500V AC 1min; 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥1500V AC 1min; 3.Between PE and S+/S−/CC2/A+/A−≥1500V AC 1min; 4.Any two of S+/S−/CC2/A+/A−≥1500V AC 1min; 5.Between DC+/DC− and temperature controller unit≥3500V AC 1min; *Note:a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the leakage current is required to be less than 5mA.							
Insulation Resistance		1.Between DC+ and DC−≥2000MΩ; 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥2000MΩ; 3.Between PE and S+/S−/CC2/A+/A−≥2000MΩ; 4.Any two of S+/S−/CC2/A+/A−≥2000MΩ; 5.Between DC+/DC− and temperature controller unit≥2000MΩ; *Note：a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the test voltage is 1000V DC.							
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）							
Cycles life		≥10000							
Insertion/withdrawal force		<140N							
Ambient temperature		−30℃ ~ +50℃							
The type of temperature controlled device(optional)		1.Temperature sensor：PT1000/NTC 2.Temperature switch							
Flame retardant rating		UL94 V−0							
Power contact type		Quick Change							
Surface material of power contacts		Ag							
Cable Specification	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	DC+/DC-	25mm²	Φ10.2±0.2mm	35mm²	Φ11.5±0.2mm	50mm²	Φ13.5±0.2mm	70mm²	Φ15.5±0.2mm
	PE	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm	25mm²	Φ10.2±0.2mm
	A+/A-	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm
		1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm	1.5mm²	Φ2.3±0.1mm
		2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm
		4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.1mm
	CC1/CC2/S+/S-	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG1372 integrated vehicle inlet

Application Suitable for the electric vehicle DC and AC charging in China area.

Customization
1.Customizing the shape and mounting size of flange.
2.Customizing the cable outlet mode for the tail of the vehicle inlet.
3.Customizing the indicator lamp.

Technical Data Sheet										
Type of interface	AC					DC				
Project/Specification	10A Series		16A Series		32A Series		80A Series	125A Series	200A Series	250A Series
Type of power	Single-phase		Single-phase	Three-phase	Single-phase	Three-phase	/			
Rated Current	10A AC		16A AC		32A AC		80A DC	125A DC	200A DC	250A DC
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015						GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015			
Mode	Mode 2/3						Mode 4			
Rated Voltage	250V AC	250V AC	440V AC	250V AC	440V AC		750V/1000V DC			
Voltage Resistance	1.Any two of L1/L2/L3/N/PE≥2500V AC 1min; 2.Between CC/CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note:In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.						1.Between DC+ and DC−≥3500V AC 1min; 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥1500V AC 1min; 3.Between PE and S+/S−/CC2/A+/A−≥1500V AC 1min; 4.Any two of S+/S−/CC2/A+/A−≥1500V AC 1min; 5.Between DC+/DC− and temperature controller unit≥3500V AC 1min; *Note:a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the leakage current is required to be less than 5mA.			
Insulation Resistance	Any two of L1/L2/L3/N/PE/CC/CP≥500MΩ. *Note:The testing voltage is 1000V DC.						1.Between DC+ and DC−≥2000MΩ; 2.Between DC+/DC− and PE/S+/S−/CC2/A+/A−≥2000MΩ; 3.Between PE and S+/S−/CC2/A+/A−≥2000MΩ; 4.Any two of S+/S−/CC2/A+/A−≥2000MΩ; 5.Between DC+/DC− and temperature controller unit≥2000MΩ; *Note：a.Both of CC1/PE are joined together,select an arbitrary contact to test; b.In the above test, the test voltage is 1000V DC.			
Degree of protection	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）									
Cycles life	≥10000						≥10000			
Insertion/withdrawal force	<100N						<140N			
Ambient temperature	−30℃ ~ +50℃									
Ambiance lamp	Multi-color display function									
The type of temperature controlled device(optional)	1.Temperature sensor：PT1000/NTC 2.Temperature switch									
Flame retardant rating	UL94 V−0									
Surface material of power contacts	Ag									
Cable Specification	Refer to the parameters of YG762 DC vehicle inlet						Refer to the parameters of YG1143 AC vehicle inlet			

YG1143 AC vehicle inlet

Application Suitable for the electric vehicle AC charging in China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.The protective cover has the following opening methods: left clamshell/right clamshell.

Technical Data Sheet							
Project/Specification		10A Series		16A Series		32A Series	
Type of power		Single-phase		Single-phase	Three-phase	Single-phase	Three-phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015					
Mode		Mode 2/3					
Rated Voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated Current		10A AC		16A AC	16A AC	32A AC	32A AC
Voltage Resistance		1.Any two of L1/L2/L3/N/PE≥2500V AC 1min; 2.Between CC/CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note:In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance		Any two of L1/L2/L3/N/PE/CC/CP≥500MΩ. *Note:The testing voltage is 1000V DC.					
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life		≥10000					
Insertion/withdrawal force		<100N					
Ambient temperature		-30℃ ~ +50℃					
The type of temperature controlled device(optional)		1.Temperature sensor：PT1000/NTC					
		2.Temperature switch					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 Just L1 when it's single-phase	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	N	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	PE	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	CC/CP	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG691 AC vehicle inlet

Application Suitable for the electric vehicle AC charging in China area.

Customization
1.The customer's logo.
2.The type and length of cable.
3.The protective cover has the following opening methods: left clamshell/right clamshell.

Technical Data Sheet							
Project/Specification		10A Series		16A Series		32A Series	
Type of power		Single-phase		Single-phase	Three-phase	Single-phase	Three-phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015					
Mode		Mode 2/3					
Rated Voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated Current		10A AC		16A AC	16A AC	32A AC	32A AC
Voltage Resistance		1.Any two of L1/L2/L3/N/PE≥2500V AC 1min; 2.Between CC/CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note:In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance		Any two of L1/L2/L3/N/PE/CC/CP≥500MΩ. *Note:The testing voltage is 1000V DC.					
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life		≥10000					
Insertion/withdrawal force		<100N					
Ambient temperature		-30℃ ~ +50℃					
The type of temperature controlle device(optional)		1.Temperature sensor：PT1000/NTC					
		2.Temperature switch					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 Just L1 when it's single-phase	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	N	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	PE	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	CC/CP	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG691-120 AC vehicle inlet

(with ring indicator lamp)

Application Suitable for the electric vehicle AC charging in China area.

Customization 1.The customer's logo.
2.The type and length of cable.

Technical Data Sheet							
Project/Specification		10A Series		16A Series		32A Series	
Type of power		Single-phase		Single-phase	Three-phase	Single-phase	Three-phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015					
Mode		Mode 2/3					
Rated Voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated Current		10A AC		16A AC	16A AC	32A AC	32A AC
Voltage Resistance		1.Any two of L1/L2/L3/N/PE≥2500V AC 1min; 2.Between CC/CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note:In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance		Any two of L1/L2/L3/N/PE/CC/CP≥500MΩ. *Note:The testing voltage is 1000V DC.					
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life		≥10000					
Insertion/withdrawal force		<100N					
Ambient temperature		-30℃ ~ +50℃					
Ambiance lamp		Multi-color display function					
The type of temperature controlle device(optional)		1.Temperature sensor：PT1000/NTC					
		2.Temperature switch					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 Just L1 when it's single-phase	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	N	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	PE	2.5mm²	Φ3.5±0.15mm	2.5mm²	Φ3.5±0.15mm	6mm²	Φ4.9±0.15mm
	CC/CP	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG762-201 Holder for DC charging cables(GB)

Application For storing the corresponding standard DC vehicle connector.

Technical Data Sheet		
Project/Specification	YG762-201-00-00KR/01 DC Empty Seat(with a normally open feedback switch)	YG762-201-00-00KR/01 DC Empty Seat
Standard	GB/T 20234.3	
Mounting mode	Front mounting type	
Mode number	YG762-201-00-00KR/01	YG762-201-00-00KR
Code	111000502203	111000502155
Feedback switch	√	X
Ambient temperature	-30℃ ~ +50℃	
Flame retardant rating	UL94 V-0	
Mounting screw	Soket head cap screw	

YG1143-201 Holder for AC charging cables(GB)

Application For storing the corresponding standard AC vehicle connector.

Technical Data Sheet		
Project/Specification	YG1143-201-00-00KR/01 ACempty seatwith feedback switch(normally open type)	YG1143-201-00-00KR AC empty seat
Standard	GB/T 20234.2	
Mounting mode	Front mounting type	
Mode number	YG1143-201-00-00KR/01	YG1143-201-00-00KR
Code	111000502204	111000502154
Feedback switch	√	X
Ambient temperature	-30℃ ~ +50℃	
Flame retardant rating	UL94 V-0	
Mounting screw	Soket head cap screw	

YG740C-Type2 Holder for AC charging cables(Type2)

Application For storing the corresponding standard AC vehicle connector.

Technical Data Sheet	
Project/Specification	YG740C Integrated AC empty seat assembly(Type2)
Standard	IEC62196-1 IEC62196-2
Mounting mode	Front mounting type
Mode number	YG740C-102-00-00KR
Code	111009802207
Feedback switch	X
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Soket head cap screw

YG1403-Type2 Holder for DC charging cables(CCS2)

Application For storing the corresponding standard DC vehicle connector.

Technical Data Sheet	
Project/Specification	YG1403 Integrated DC empty seat assembly(CCS2)
Standard	IEC62196-1 IEC62196-3
Mounting mode	Front mounting type
Mode number	YG1403-103-00-00KR
Code	111009802241
Feedback switch	X
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Soket head cap screw

YG740D-Type1 Holder for AC charging cables(Type1)

Application For storing the corresponding standard AC vehicle connector.

Technical Data Sheet	
Project/Specification	YG740D Integrated AC empty seat assembly(Type1)
Standard	IEC 62196-2 SAE J1772
Mounting mode	Front mounting type
Mode number	YG740D-101-00-00KR
Code	111009802206
Feedback switch	X
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Soket head cap screw

YG196-420 interlock device

Product Introduction

Dc interlock device through the use of supply voltage and reverse voltage, through the motor and mechanical structure to perform the expansion of the lock rod, so as to achieve the locking function of the AC connector.

The micro switch is included to provide immediate feedback on the current position of the lock rod (extended and retracted).

The tail tie rod can be connected with wire rope and other components to achieve emergency unlock when there is an abnormal power failure (manual).

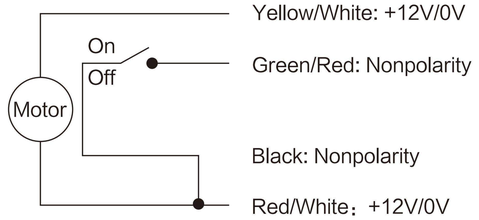
Action and Feedback

Yellow/White: +12V Red/White: 0V The rod will be extending, and switch on.

Yellow/White: 0V Red/White: +12V The rod will be took back, and switch off.

When the push rod is extended, the wire rope can be used to pull it back.

Schematic Circuit Diagram



Technical Data Sheet	
Rated operating voltage	DC 9-16V
Rated Voltage	DC 12V±5%
Standstill current	<250mA
Rated current	35mA
Stroke length	⩾5.5mm
Holding force	⩾15N
Extending force	⩾20N
Manual unlocking force	<40N
Electrifying time	600mS<T<1S
Standstill time	<1min
Cycles life	100000 times
Operating temperature	-40℃~+85℃
Environmental Index	Meet RoHS requirements
Degree of protection	IP67

YG1418 AC socket-outlet(Type2)

Application Suitable for the corresponding standard AC charging equipment of European Union area.

Customization 1.The customer's logo.
2.The type and length of cable.

Technical Data Sheet							
Project/Specification		10A Series		16A Series		32A Series	
Type of power		Single-phase		Single-phase	Three-phase	Single-phase	Three-phase
Standard		IEC62196-1 IEC62196-2					
Mode		Mode 2/3					
Rated Voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated Current		10A AC		16A AC	16A AC	32A AC	32A AC
Voltage Resistance		1.Any two of L1/L2/L3/N/PE≥2500V AC 1min; 2.Between CC/CP and L1/L2/L3/N/PE≥1500V AC 1min; *Note:In the single-phase case, the test number 1 can be performed at a voltage of 2000V AC 1min.					
Insulation Resistance		Any two of L1/L2/L3/N/PE/CC/CP≥500MΩ. *Note:The testing voltage is 1000V DC.					
Degree of protection		Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）					
Cycles life		≥10000					
Insertion/withdrawal force		<100N					
Ambient temperature		-30℃ ~ +50℃					
The type of temperature controlled device(optional)		1.Temperature sensor：PT1000/NTC					
		2.Temperature switch					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 Just L1 when it's single-phase	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	N	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	PE	2.5mm²	Φ2.5±0.15mm	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	CC/CP	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm	0.75mm²	Φ1.8±0.1mm

YG196-455 AC discharge connector

Application Suitable for the corresponding standard electric vehicle in China area, in the application of V2L.

Customization 1.The customer's logo.
2.It is supporting the customization of product colors.

Technical Data Sheet		
Project/Specification		16A Series
Type of power		Single-phase
Standard		GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 2099.7-2015
Mode		Discharge mode 1.1, Case B connection
Rated Voltage		220V AC
Rated Current		16A AC
Voltage Resistance		1.Between L1 and N≥2000V AC 1min; 2.Between L1/N and PE≥1500V AC 1min; *Note: Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation Resistance		1.Any two of L1/N/PE≥500MΩ. *Note: a.Both of CC/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 500V DC.
Degree of protection	Connector	Before insertion：IP54；After insertion：IP55
	Three hole socket	IP55(The protective cover is closed)
Cycles life	Connector	≥10000
	Three hole socket	≥5000
Insertion/withdrawal force		<100N
Ambient temperature		-30℃ ~ +50℃
Flame retardant rating		UL94 V-0
Surface material of power contacts		Ag

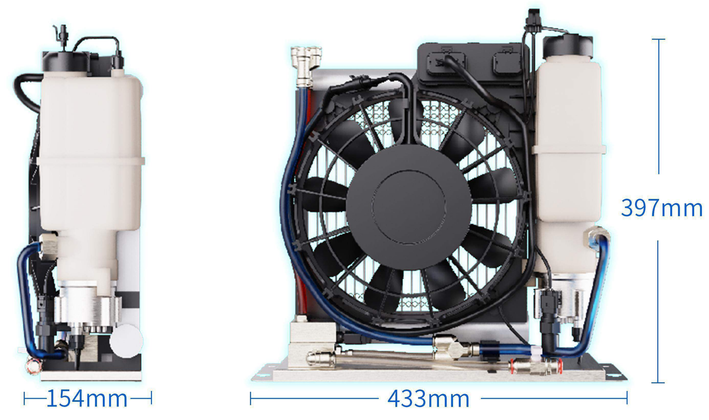
YG1143 AC discharge strip

Application Suitable for the corresponding standard electric vehicle in China area, in the application of V2L.

Customization
1.The customer's logo.
2.It is supporting the customization of product colors.
3.The type and length of cable.

Technical Data Sheet		
Project/Specification		16A Series
Type of power		Single-phase
Standard		GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 2099.7-2015
Mode		Discharge mode 1.1, Case B connection
Rated Voltage		220V AC
Rated Current		16A AC
Voltage Resistance		1.Between L1 and N≥2000V AC 1min; 2.Between L1/N and PE≥1500V AC 1min; *Note: Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation Resistance		1.Any two of L1/N/PE≥500MΩ. *Note: a.Both of CC/PE are joined together,select an arbitrary contact to test; b.The testing voltage is 500V DC.
Degree of protection	Connector	Before insertion：IP54；After insertion：IP55 Electrical part：IP67（Except the interface with socket）
	Strip	
Cycles life	Connector	≥10000
	Strip	≥5000
Insertion/withdrawal force		< 100N
Ambient temperature		-30℃ ~ +50℃
Flame retardant rating		UL94 V-0
Surface material of power contacts		Ag
OD of cable		Φ8.5±0.2mm
Cable structure		3×1.5

Liquid-cooing system



Technical Data Sheet	
Output voltage	12V DC
Working power	<200W
Working pressure	0~7Bar
Fluid supply pressure	6Bar
Cooling flow rate	4L/min@450Kpa
Cooling medium	Shell E4
Working temperature	-40℃~+50℃
Expansion pot volume	1.5L
Degrees of protection	IP68
Reference weight	7kg
Communication method	Modbus485/232
Control method	Full-automatic
Noise level	≤60dB (A)
Noise level	25000h

Adaptors

NACS to Type1

Type1 to NACS

Type1 to Type2

Type2 to Type1

GB/T to Type2

Type2 to GB/T

Project/Specification	
Rated Current	16A / 32A
Operation Voltage	110V / 250V AC
Insulation Resistance	＞1000MΩ(DC500V)
Contact Resistance	0.5mΩ Max
Terminal temperature rise	＜50K
Withstanding Voltage	2000V
Mechanical Performance	
Mechanical life	No-load insertion and removal >10000 times
Coupling insertion force	45＜F＜80N
Environmental performance	
Operating Temperature	-30°C -+ 50°C
Material Application	
Shell Material	Thermoplastic, Flame Retardant UL94-V-0
Terminals	Copper Alloy, Silver Plated

Product Customer Presentation

永 贵 连 接
Yonggui Connection

连 接 专 家
Connection Experts

红旗 让理想飞扬 · CSG科大智能 · GRASEN 嘉盛电源 · CHERY · HONDA · 中国中车 CRRC · 吉利汽车 GEELY AUTO · 北汽集团 BAIC GROUP · WULING · ABB · 象前兖 · 广汽新能源 GAC NE · 小鹏 · 联桩 · 比亚迪汽车 · 特来电 TELD · TITANS · EAST 易事特 · XCJ · WANBANG XNY 万帮新能源 · KEHUA 科华恒盛