永 贵 连 接 连 接 专 家

Yonggui Connection Conection Experts

浙江永贵电器股份有限公司

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技术咨询/ Service of technicall: 0816- 2539147 2534847
网址/ Web: http://www.yonggui- sc. com

扫 码 关 注 我 们

YONGGUI

证券代码：300351
Stock Code: 300351

2024版 新能源互联方案

电动汽车充放电系统产品

Products of Electric Vehicle Bi-directional 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

总公司简介

浙江永贵电器股份有限公司

浙江永贵电器股份有限公司（证券简称“永贵电器”，证券代码“300351”），是创建于1973年的国家高新技术企业，公司产品覆盖轨道交通、特种、通信、新能源等各个领域；具有自主研发、规模制造、优质服务的完整体系。经中国证监会核准，2012年9月20日，永贵电器在深圳证券交易所成功上市。现有7家全资及控股子公司，员工2000多人，获得国家专利300余项。总部设在浙江天台。

永贵电器坚持自主创新、开放创新和协同创新，持续完善技术创新体系，形成强大的技术创新能力。公司拥有装备精良、工艺先进、专业化、规模化的制造基地，形成了连接器、门系统、贯通道（风挡）、减振器、计轴系统、轨道交通蓄电池系统、碳滑板等七大产品平台，制造水平处于行业领先地位。

面向未来，永贵电器将继续秉持“科技连接未来”的企业使命，大力实施国际化、多元化、协同化发展战略，打造“国内一流、国际知名”的优秀企业，努力把永贵电器建设成为以连接器为核心，多领域、多产业共同发展的高端装备系统解决方案供应商。

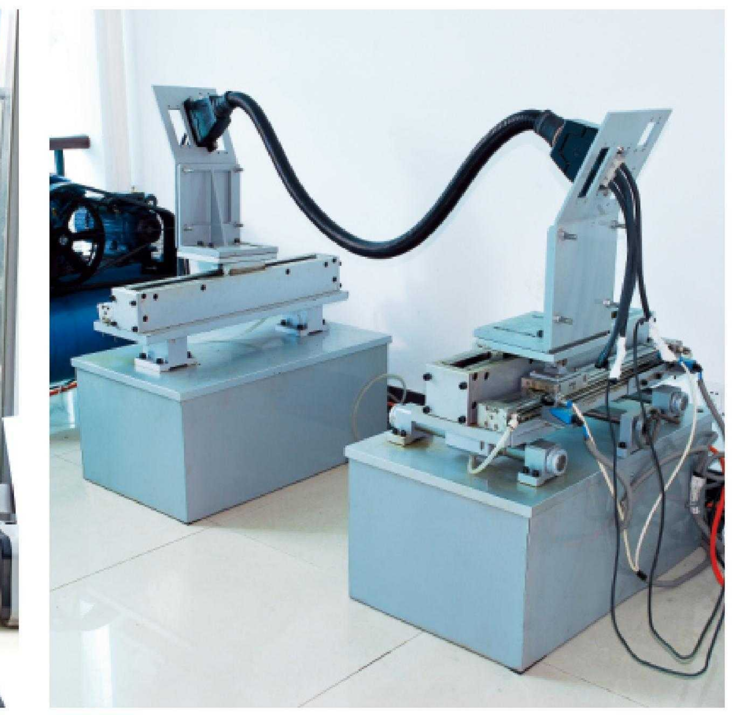
Zhejiang Yonggui Electric Equipment Co.,Ltd.(short name"Yonggui Electric Euiepment", stock code"300351")is a National High-Tech Enterprise established in 1973 which covers rail transit,special industry, telecommunication and new energy field, etc.; it has a complete system of Independent research and development,mass manufacture,an high quality service.It has gone public in Shenzhen Stock Exchange on September 20th 2012.Yonggui has seven wholly-owned and holding subsidiaries,more than 2,000 employees, access more than 300 items of national patents. Headquartered in Tiantai,Zhejiang.

Yonggui insists on independent innovation,open innovation and collaborative innovation and continuously technology innovation system to form a strong technology innovation capability.The company owns the professional and large-scale manufacture base with excellent equipments and advanced crafts,which forms seven product platforms of connector,door system, gangway, axle counting system,damper,storage batterysystem of rail transit and carbide sliding strip,and the manufacture level lies in the leading position of the industly.

In the future, Yonggui will continue to carry out its mission that connects the future with technology.Yonggui will continuously create value for the clients and the society by committing itself to being first-class in China, internationally well-known,multi-field,multi-industry,high end equipment system solution manufacturer.





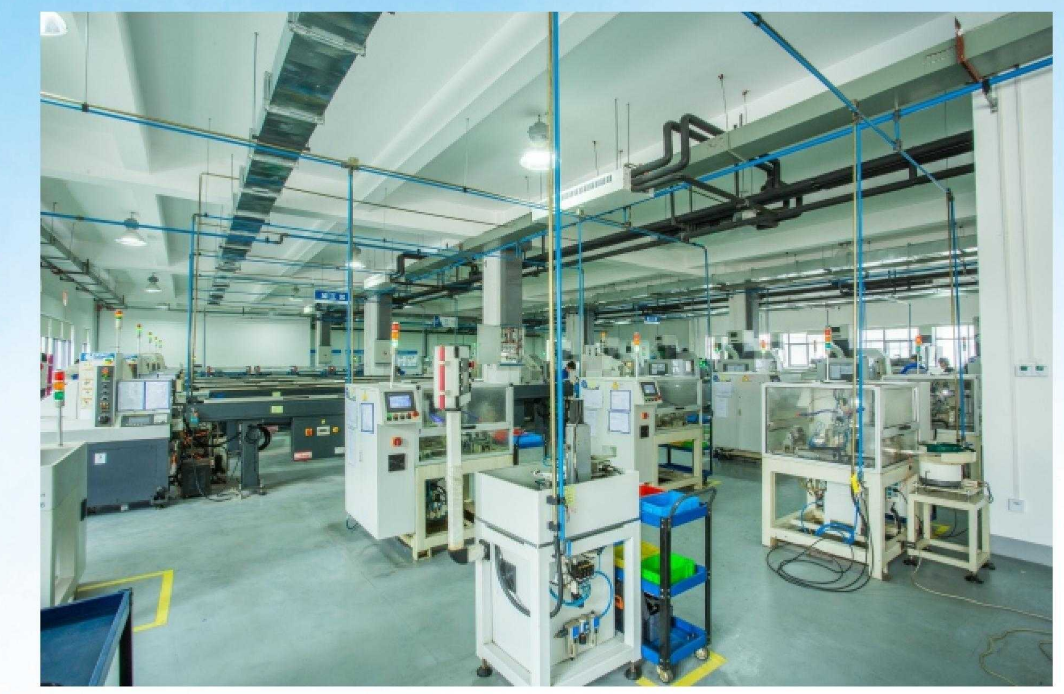


四川公司简介

Sichuan company profile

四 川 永 贵 科 技 有 限 公 司

Sichuan Yonggui Science and Technology Co., Ltd



四川永贵科技有限公司创办于2008年，坐落于中国科技电子城绵阳市，公司建筑面积10.8万平方米，注册资本1亿元,资产总值11.2亿元人民币,系浙江永贵电器股份有限公司(股票名称:永贵电器,股票代码：300351）的全资子公司，是为国家重点装备业提供可靠连接器系列产品及技术服务，为互连系统提供整体解决方案的国家高新技术企业。

公司拥有一支具有丰富电连接器专业知识的专家队伍和管理团队，技术中心被评为省级技术中心，并成功开发出了广泛用于轨道交通、新能源、特种、通信、石油防爆、港口机械等领域的上万种规格的电连接系列产品。同时，公司产品直接或间接出口到全球十多个国家和地区，深得客户的好评。

公司先后通过了ISO9001质量管理体系、ISO14001环境管理体系、QHSAS18001职业健康与安全管理体系、IATF16949:2016质量管理体系、ISO/TS 22163质量管理体系、EN15085-2体系和ISO3834国际焊接体系认证。

公司产品通过了CRCC、ETL、UL等产品质量认证，通过了西门子、三菱、日立、东洋、艾默生等世界知名公司的供应商资质认证。也是中国中车股份有限公司的主要供应商。

Sichuan Yonggui Science and Technology Co., Ltd was established in 2008,located in Science,Education District, Mianyang. The Plan area is about108,000 m^2, registered capital 100million RMB, property nearly1120million RMB, it's the subsidiary company of Zhejiang Yonggui Electric Equipment Co., Ltd (stock name：Yonggui Electric Equipment，stock code：300351), we support the reliable connector and connection system solution for National key equipment.

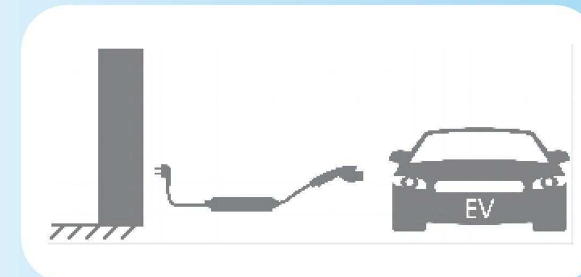
We established an expert and management team with rich knowledge of connector ,the Technical Center have been identified as Enterprise Technical Center of Sichuan province ,and successfully developed thousands of products wildly use in Rail transit, Special industry, Communication, Petrochemicals, Clean energy, harbour machinery etc. At the same time, the company's products, directly or indirectly exported to more than 10 countries in the global and recognized by clients.

Company obtained the ISO9001,ISO14001, ISO18001,IATF16949:2016, ISO/TS 22163, EN15085-2, and ISO3834.

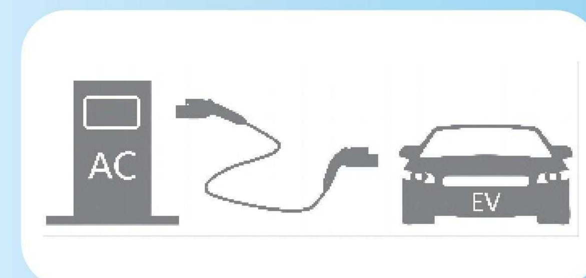
The products passed the CRCC, ETL, UL certification, and also passed the supplier qualified certification of Siemens, Mitsubishi, Hitachi, Toyo, and Emerson. We are the main supplier of CRRC.

STANDARD COVERAGE
标准覆盖情况

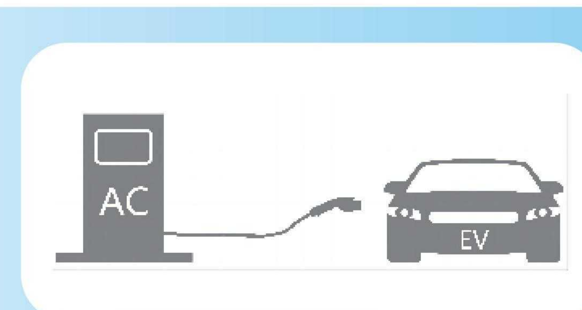
COVERAGE OF CHARGING AND DISCHARGING SCENARIOS
充电放电场景覆盖情况



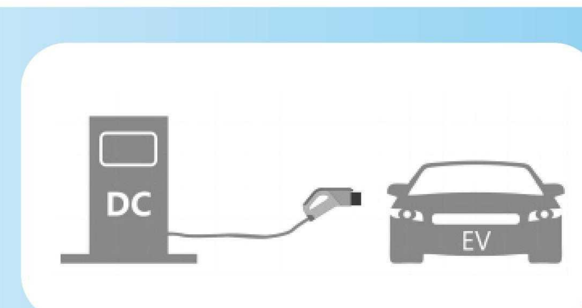
Model 2
Connection type B



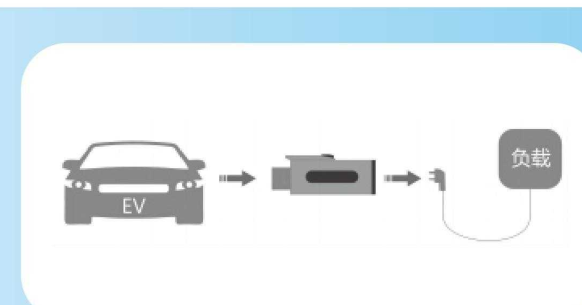
Model 3
Connection type B



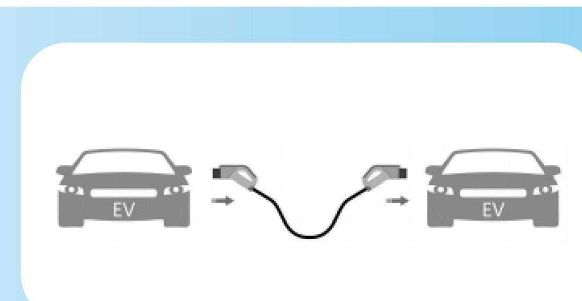
Model 3
Connection type C



Model 4
Connection type C



Discharge mode 1.1 V2L



Discharge model 2.1 V2V

ECOLOGICAL SCENARIO APPLICATION DISPLAY
生态场景应用展示

Electric vehicle charging socket

IP67
Position of the cable from the tail，the protection is IP67

Wear-resistant insert
The hook slot adopts metal insert,which has high reliability

High and low voltage partition
Using PCB integrated low voltage signal, easy to achieve high and low voltage partition

Multi-color status indicator
Multi-color ring atmosphere lights can be configured to visually display the charging state of the vehicle and have strong interaction

Modular design
Single module has strong versatility, high reliability, and easy to expand new products

Precise temperature control
Using precision patch temperature control sensor, high thermal conductivity silicone bonding, effectively eliminate the risk of overtemperature

DC charging applications for electric vehicles

IP67
Integrated shell,multiple waterproof seal
It can realize IP67 protection of internal electrical parts

Comprehensive specifications
Low DC: 10A/16A/32A/50A/80A
Normal DC: 80A/125A/160A/200A/250A
High DC: 600A+

Both water and oil liquid cooling
Choose water or oil liquid cooling both well
Both of them have been applied commercially and are mature and reliable

Lightweight cable
Innovative liquid cooling cable design reduces the weight of the gun line by nearly 50%

Model 3 AC charging applications

IP67
Integrated shell,multiple waterproof seal
It can realize IP67 protection of internal electrical parts

Multistandard coverage
国标GB/T 20234、欧标EN 62196
美标SAE J1772

Extreme appearance
To avoid having screw holes all over one side, the gun case is either a one-piece housing or a hot-riveted design for both look and feel

INTRODUCTION OF APPLICATION SCENARIOS
应用场景介绍

ECOLOGICAL SCENARIO APPLICATION DISPLAY
生态场景应用展示

Model 2 AC charging applications

IP67
Integrated shell,multiple waterproof seal
Both the charging gun and the control box provide IP67 protection

Comprehensive protection
The control box has over temperature, over voltage, under voltage, no ground, over current, leakage, short circuit and other protection functions

Excellent electromagnetic compatibility
The conduction/radiation values of the products are far lower than the relevant standards, and the electromagnetic immunity is high

Electric vehicle V2L discharge applications

IP67
Integrated shell,multiple waterproof seal
It can realize IP67 protection of internal electrical parts

safety protection
Product has the protection function of leakage, over-current, over-temperature, etc., to ensure the safety of electricity consumption

Manifold stiffeners
The type of discharge gun add discharge strip can be selected, or the integrated discharge gun can be selected for easy use and storage

Flexible customize
The discharge gun supports accessories color customization, such as protective cover, non-slip bar, buttons, etc., which fully fits the customer's corporate image

Liquid cooling system for charging pile

Highly integrated
Heat exchanger, liquid storage pot, fan, controller, power pump integrated design, occupy small space, easy to install

Reliable performance
Design and development, parts selection, experimental verification, manufacturing process and quality control are all developed in accordance with IATF 16949 system

Flexible customize
Choose water or oil liquid cooling both well，both of them have been applied commercially and are mature and reliable

目录
CONTENTS

01 直流车辆插座
DC VEHICLE INLET

02 交流车辆插座
AC VEHICLE INLET

03 直流充电枪
DC VEHICLE CONNECTOR

04 交流充电枪
AC VEHICLE CONNECTOR

05 放电应用产品
DISCHARGE APPLICATION PRODUCTS

06 充电附件
CHARGING ACCESSORIES

07 冷却系统
LIUQUID-COOLING SYSTEM

08 其他产品
OTHER PRODUCTS

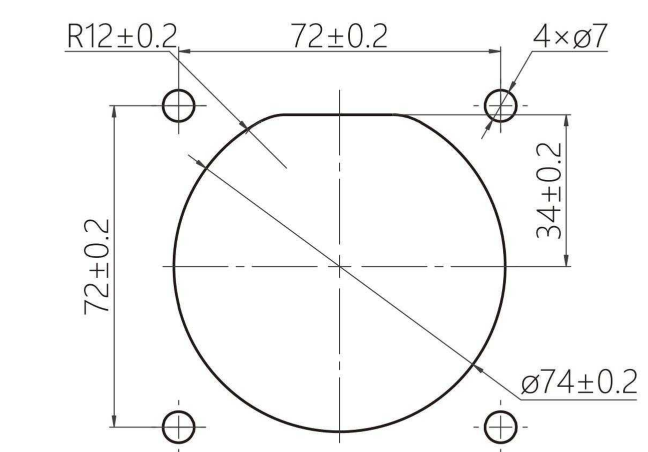
YG-GBN
DC vehicle inlet (GB)

Product 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



Recommended installation hole size

Technical data sheet											
Project/Specification		80A		125A		200A		250A		300A	
Standard		GB/T 20234.1-2023 GB/T 20234.3-2023									
Mode		Mode 4									
Rated voltage		750V/1000V DC									
Rated current		80A DC		125A DC		200A DC		250A DC		300A DC	
Withstand voltage		1.Between DC+ and DC-⩾3500V AC 1 min 2.Between DC+/DC- and PE/S+/S-/A+/A-⩾1500V AC 1 min 3.Between PE and S+/S-/CC2/A+/A-⩾1500V AC 1 min 4.Any two of S+/S-/CC2/A+/A-⩾1500V AC 1 min 5.Between DC+/DC- and temperature controller unit ⩾3500V AC 1 min 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									
Insulation resistance		＜140N									
Ambient temperature		-30℃ ~ +50℃									
The type of temperature controlled device		Temperature sensor:NTC									
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	Section specification	OD of cable
	DC+/DC-	25mm²	Φ10.2±0.2mm	35mm²	Φ11.5±0.2mm	50mm²	Φ13.5±0.3mm	70mm²	Φ15.5±0.3mm	95mm²	Φ18.7±0.5mm
	PE	25mm²	Φ10.2±0.2mm	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	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	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	2.5mm²	Φ3.5±0.15mm
		4mm²	Φ4.5±0.1mm	4mm²	Φ4.5±0.15mm	4mm²	Φ4.5±0.15mm	4mm²	Φ4.5±0.15mm	4mm²	Φ4.5±0.15mm
	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	0.75mm²	Φ1.8±0.1mm

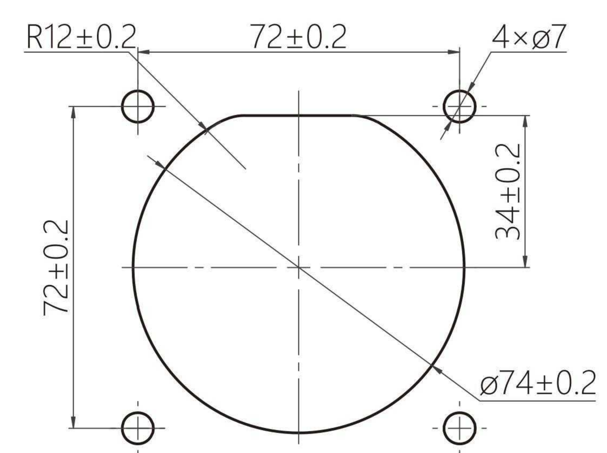
YG762
DC vehicle inlet (GB)

Product 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



Recommended installation hole size

Technical data sheet									
Project/Specification		80A		125A		200A		250A	
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	
Withstand voltage		1.Between DC+ and DC-⩾3500V AC 1 min 2.Between DC+/DC- and PE/S+/S-/A+/A-⩾1500V AC 1 min 3.Between PE and S+/S-/CC2/A+/A-⩾1500V AC 1 min 4.Any two of S+/S-/CC2/A+/A-⩾1500V AC 1 min 5.Between DC+/DC- and temperature controller unit ⩾3500V AC 1 min 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							
Insulation resistance		＜140N							
Ambient temperature		-30℃ ~ +50℃							
The type of temperature controlled device		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-	$25mm^2$	Φ10.2±0.2mm	$35mm^2$	Φ11.5±0.2mm	$50mm^2$	Φ13.5±0.2mm	$70mm^2$	Φ15.5±0.2mm
	PE	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm
	A+/A-	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm
		$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm
		$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm
		$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm
	CC1/CC2/S+/S-	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm

PRODUCT PARAMETER INTRODUCTION P
产品参数介绍

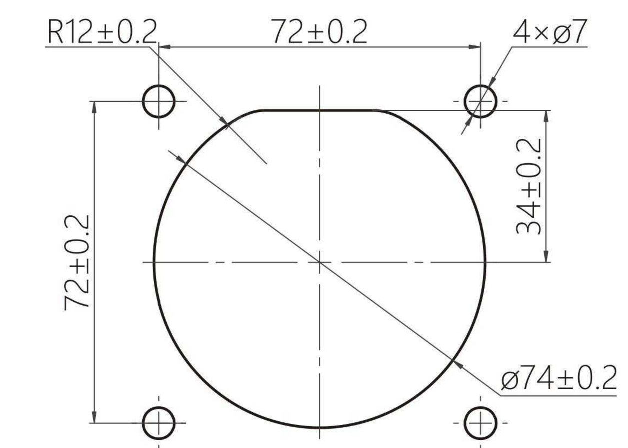
YG1201
DC vehicle inlet(GB)
(Structure for replacing quickly)

Product 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



Recommended installation hole size

Technical data sheet									
Project/Specification		80A		125A		200A		250A	
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	
Withstand voltage		1.Between DC+ and DC-⩾3500V AC 1 min 2.Between DC+/DC- and PE/S+/S-/A+/A-⩾1500V AC 1 min 3.Between PE and S+/S-/CC2/A+/A-⩾1500V AC 1 min 4.Any two of S+/S-/CC2/A+/A-⩾1500V AC 1 min 5.Between DC+/DC- and temperature controller unit ⩾3500V AC 1 min 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							
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	DC+/DC-	$25mm^2$	Φ10.2±0.2mm	$35mm^2$	Φ11.5±0.2mm	$50mm^2$	Φ13.5±0.2mm	$70mm^2$	Φ15.5±0.2mm
	PE	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm	$25mm^2$	Φ10.2±0.2mm
	A+/A-	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm
		$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm	$1.5mm^2$	Φ2.3±0.1mm
		$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm	$2.5mm^2$	Φ3.5±0.15mm
		$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm	$4mm^2$	Φ4.5±0.1mm
	CC1/CC2/S+/S-	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm	$0.75mm^2$	Φ1.8±0.1mm

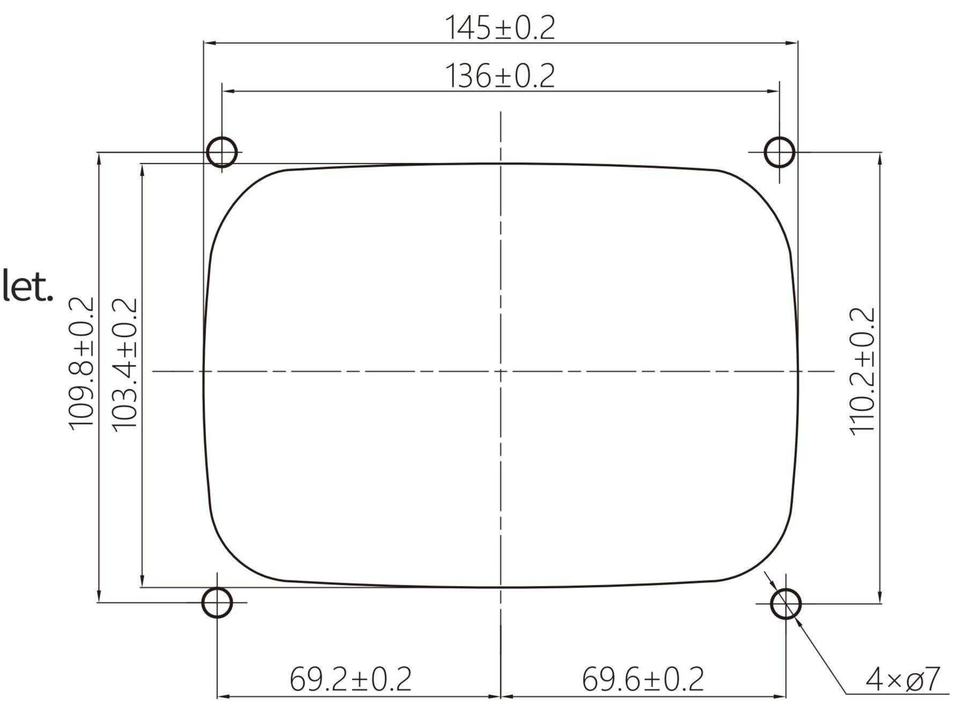
YG1372
Integrated vehicle inlet（GB）

Product application

Suitable for the electric vehicle DC 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.



Recommended installation hole size

Technical data sheet									
Type of interface	AC					DC			
Project/Specification	10A	16A		32A		80A	125A	200A	250A
Type of power	Single-phase	Single-phase	Type of interface	Single-phase	Type of interface	/			
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 Mode 3					Mode 4			
Rated voltage	250V AC	250V AC	440V AC	250V AC	440V AC	750V/1000V DC			
Rated current	10A AC	16A AC	16A AC	32A AC	32A AC	80A DC	125A DC	200A DC	250A DC
StandWithstand voltageard	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.Belween PE and S+/S-/CC2/A+/A-⩾2000MΩ 3.Belween PE and 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 YG1143 AC vehicle inlet					Refer to the parameters of YG762 DC vehicle inlet			

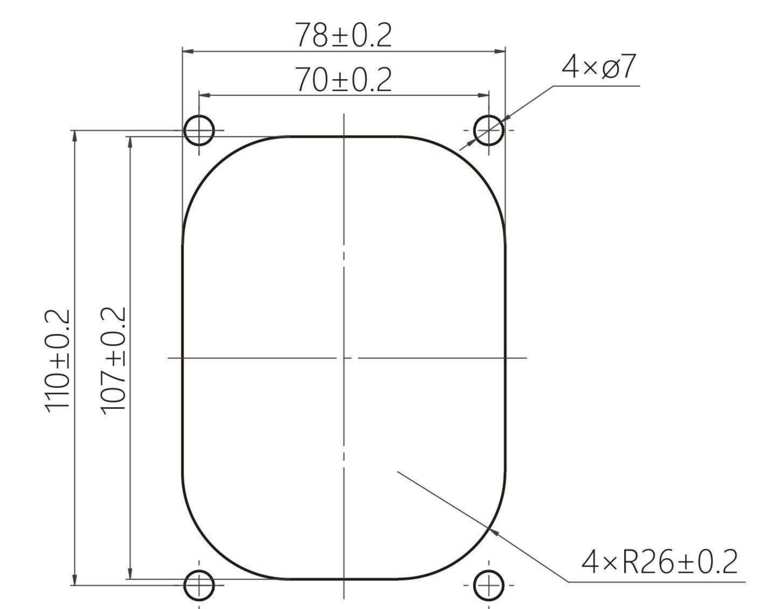
YG-ENN
Integrated vehicle inlet（GB）

Product application

Suitable for the electric vehicle DC/AC charging in European Union area

Customization

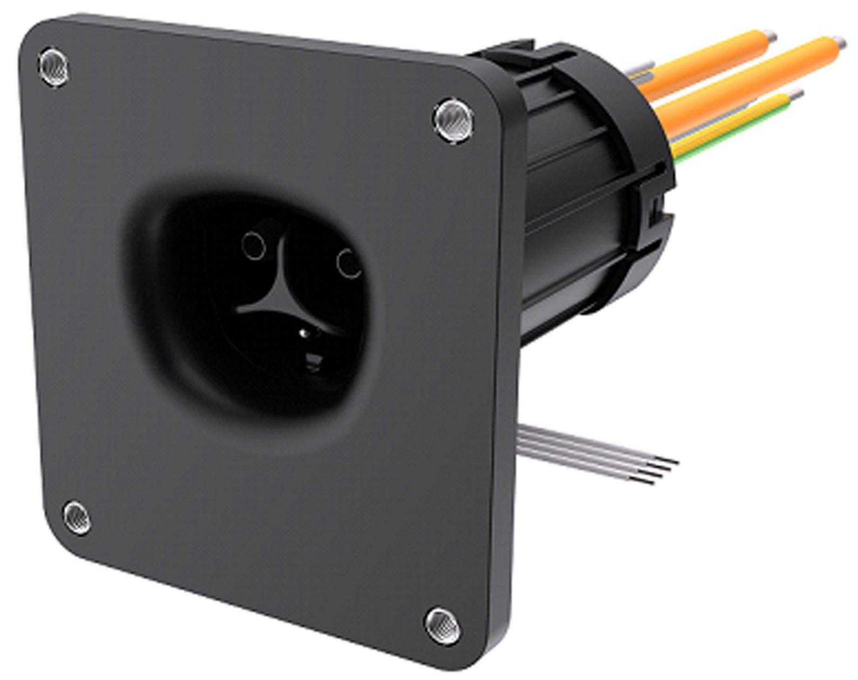
1.The customer's logo
2.The type and length of cable
3.The tail cable can be routed in two ways:180°/90°
4.The protective cover has the following opening methods:left clamshell/right clamshell



Recommended installation hole size

Technical data sheet															
Project/Specification		AC				DC									
		32A				80A		125A		200A		250A		350A	
Type of power		Single-phase		Three-phase		/									
Standard		IEC62196-1 IEC62196-2 IEC 62196-3													
Mode		Mode 4													
Rated voltage		250V AC		480V AC		1000V DC									
Rated current		32A		32A		80A		125A		200A		250A		350A	
StandWithstand voltageard		1.Any two of DC+/DC-/PE⩾2500V AC，1min 2.Between PP/CP and L1/L2/L3/N/PE⩾2500V AC 1min 3.Between PP and CP⩾500V AC 1min In the above test, the leakage current is required to be less than 10mA													
Insulation resistance		1.Any two of L1/L2/L3/N/PE/CC/CP⩾200MΩ 2.Any two of DC+/DC-/PE⩾200MΩ Note: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		＜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													
Cable specification	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	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 ±0.3mm	70mm²	Φ15.5 ±0.3mm	95mm²	Φ18.7 ±0.5mm
	L1/L2/L3 单相产品无L2/L3	6mm²	Φ4.9 ±0.15mm	6mm²	Φ4.9 ±0.15mm	/	/	/	/	/	/	/	/	/	/
	PE	/	/	/	/	25mm²	Φ10.2 ±0.2mm	25mm²	Φ10.2 ±0.2mm	25mm²	Φ10.2 ±0.2mm	25mm²	Φ10.2 ±0.2mm	25mm²	Φ10.2 ±0.2mm
	PP/CP	0.5mm²	Φ1.5 ±0.1mm	0.5mm²	Φ1.5 ±0.1mm	/	/	/	/	/	/	/	/	/	/

YG-NACSN
Tesla integrated vehicle inlet（NACS）

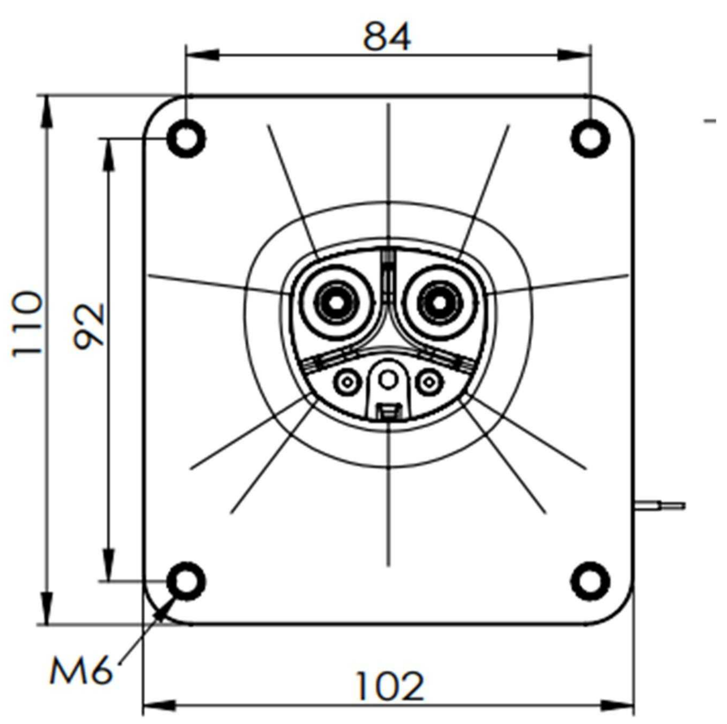


Product application

Suitable for the electric vehicle DC/AC charging in US area

Customization

1.The customer's logo
2.Customizing the shape and mounting size of flange



Recommended installation hole size

Technical data sheet																	
Project/Specification		16A		32A		48A		80A		150A		200A		300A		350A	
Standard		NACS(TS-0023666) IEC J3400 UL2251															
Mode		Charging mode 3(4) connection mode C															
Rated voltage		500V /1000V															
Rated current		16A		32A		48A		80A		150A		200A		300A		350A	
Withstand voltage		1.HV+, HV- ⩾3000V AC 1min; 2. The distance between HV+ and HV- and GND, CP and PP is ⩾1000V AC 1min respectively; 3.PE, CP, PP pair to each other ⩾1000V AC 1min;															
Insulation resistance		1.HV+, HV- ⩾100MΩ (1000V DC); 2.HV+, HV- and GND, CP, PP are respectively between ⩾100MΩ (1000V DC); 3.PE, CP, PP between each other ⩾100MΩ (1000V DC)															
Degree of protection		After insertion:IP44; Electrical part: IP67															
Cycles life		⩾10000 times															
Insertion/withdrawal force		＜100N															
Ambient temperature		-40°C ~ + 50°C															
Temperature sensor type		PT /NTC															
Flame retardant rating		UL 94 V-0															
Cable specification	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	HV+/HV-	13AWG	Ø3.75±0.15mm	10AWG	Ø4.7±0.2mm	9AWG	Ø5.3±0.2mm	5AWG	Ø8.2±0.25mm	2AWG	Ø10.8±0.3mm	1/0AWG	Ø13.2±0.4mm	3/0AWG	Ø16.2±0.4mm	4/0AWG	Ø17.5±0.4mm
	PE	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm	10AWG	Ø4.7±0.2mm
	CP/PP	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm	20AWG	Ø2.55±0.1mm

PRODUCT PARAMETER INTRODUCTION
产品参数介绍

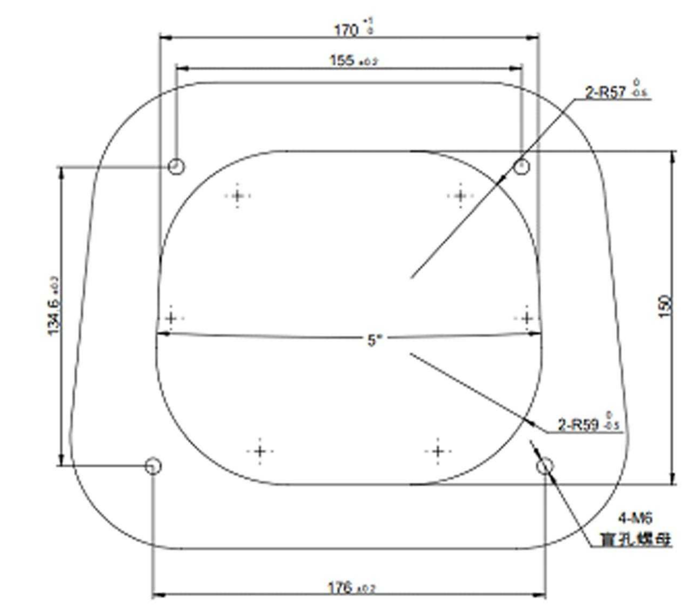
YG-MCS
DC vehicle inlet（MCS）

Product application

Suitable for the electric vehicle DC charging in conforming area

Customization

1.The customer's logo
2.Customizing the shape and mounting size of flange



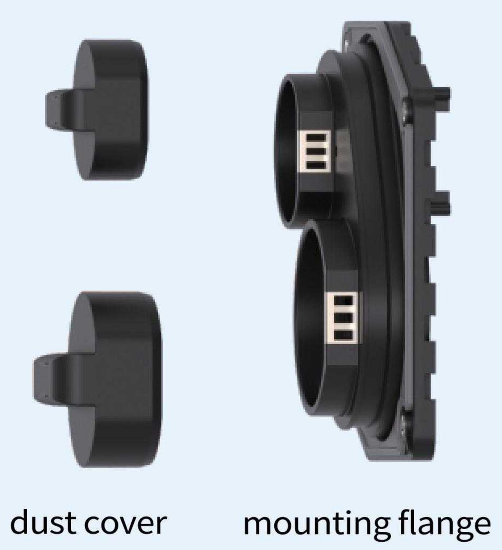
Recommended installation hole size

Technical data sheet			
Project/Specification		1500A	
Standard		ISO 5474,IECTS 63379,SAE J3271	
Mode		Charging mode 4 connection method C	
Rated voltage		1500V DC	
Rated current		1500A	
Withstand voltage		1.DC+ and DC- ⩾ 3500V AC 1min ; 2. DC+ , DC- and PE , CP , PP respectively ⩾ 1500V AC 1min ; 3. PE and CP ⩾ 1500V AC 1min ; 4. Between CP and PP : ⩾ 1500V AC 1min ; between 1 and 2 : ⩾ 1500V AC 1min 5. DC + , DC- and temperature control ⩾ 3500V AC 1min ; * Note: a. PP and PE are connected. The above test, leakage current <5mA	
Insulation resistance		1. DC+ , DC -⩾ 100MΩ ; 2.resistance between DC+ , DC- and PE , CP , PP respectively is ⩾ 100MΩ ; 3.PE and CP is ⩾ 100MΩ ; 4. CP and PP ⩾ 100MΩ ; 1 and 2 ⩾ 100MΩ 5.resistance between DC+ and DC- and the temperature control is ⩾ 100MΩ ; * Note: a. PP is connected to PE ; b. The above test voltage is: 1000V DC	
Degree of protection		After insertion:IP54; Electrical part: IP67	
Cycles life		⩾10000 times	
Insertion/withdrawal force		＜100N	
Ambient temperature		-40°C ~+ 50°C	
Temperature sensor type		PT /NTC	
Flame retardant rating		UL 94 V-0	
Cable specification	Contact	Section specification	OD of cable
	DC+/DC-	3*150mm²	Ø21.5±0.5mm
	PE	25mm²	Ø10.2±0.2mm
	CP/PP/1/2/T1+/T1-/T2+/T2-	0.75mm²	Ø2.1±0.15mm

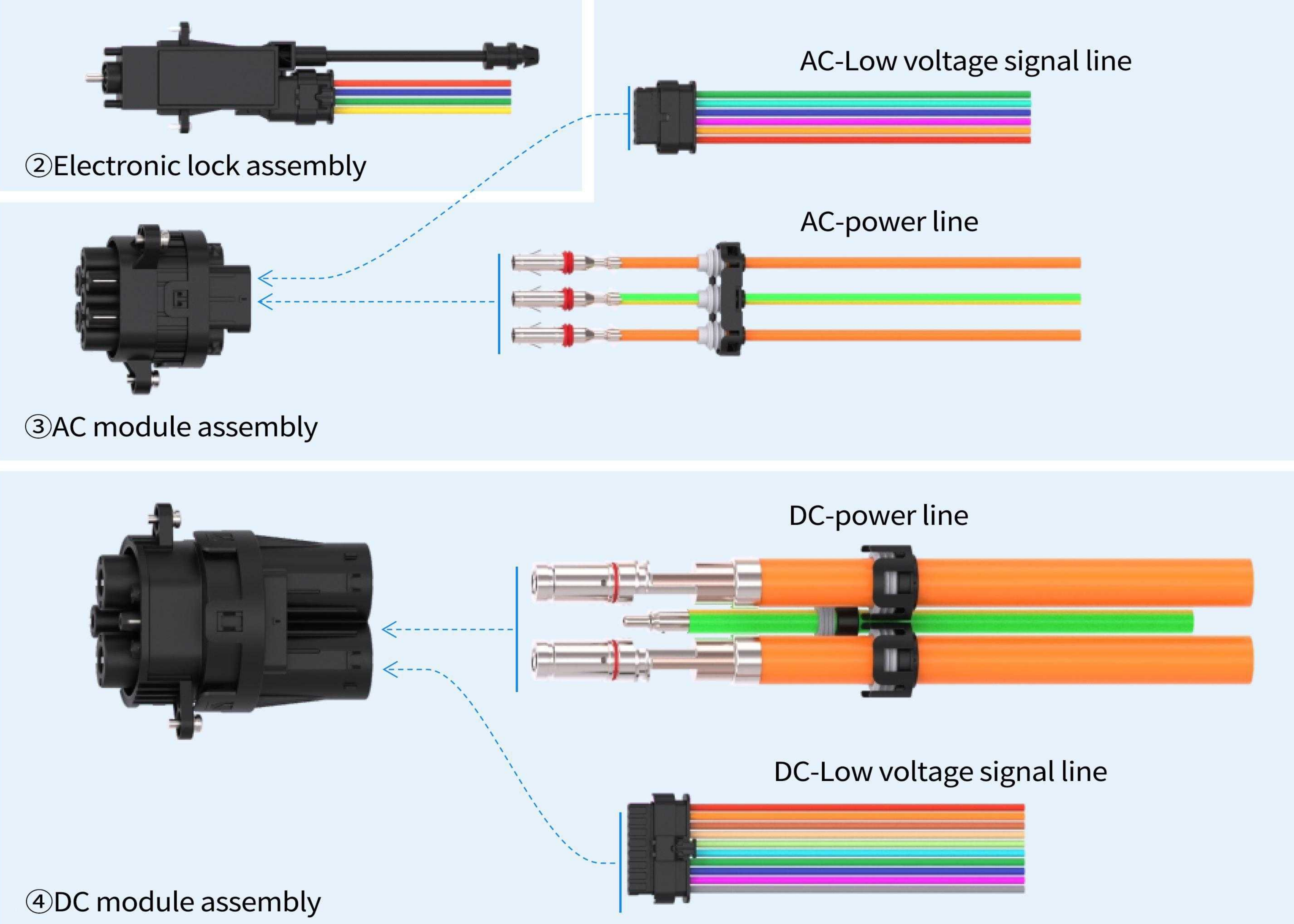
Integrated socket custom development introduction

customization

①flange assembly



Standard module assembly



Advantages

Modular design

Has three mature modular components: electronic lock components, AC module components, DC module components. High product maturity, parts sharing, short development cycle, high production efficiency

Cable rear installation design

According to the design characteristics of the product structure, the high and low voltage cables are crimped and pushed from the tail of the socket to complete the overall assembly of the product. Production efficiency is greatly improved, but also to meet the needs of automated production

High and low pressure zone design

The high and low voltage cables in the AC module and DC module are designed in partitions. PCBA components are used to integrate and transfer low-voltage signals, making the internal layout of the socket more simple and stable

Punch type pinhole applications

The low pressure contact parts of the socket products can be selected with punching pins/holes, which can meet the needs of automated production, but also conducive to production capacity and cost control

Customized

交流车辆插座

AC vehicle inlet

02

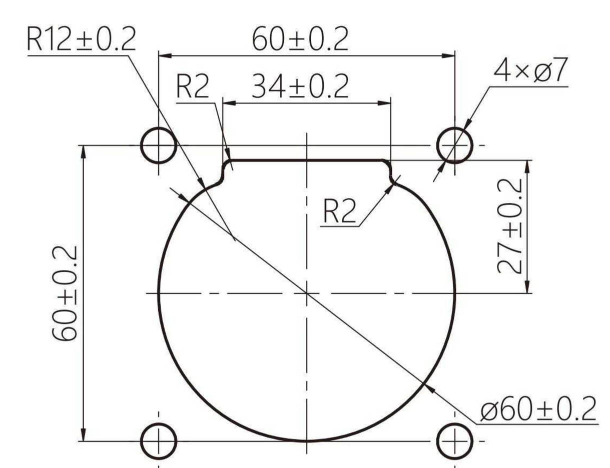
YG1143
AC vehicle inlet(GB)

Product 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



Recommended installation hole size

Technical data sheet							
Project/Specification		10A		16A		32A	
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 Mode3					
Rated voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated current		10A AC		16A AC	16A AC	32A AC	32A AC
StandWithstand voltageard		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					
Cable specification	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 单相产品无L2/L3	2.5mm^2	Φ2.5±0.15mm	2.5mm^2	Φ2.5±0.15mm	6mm^2	Φ4.9±0.15mm
	N	2.5mm^2	Φ2.5±0.15mm	2.5mm^2	Φ2.5±0.15mm	6mm^2	Φ4.9±0.15mm
	PE	2.5mm^2	Φ2.5±0.15mm	2.5mm^2	Φ2.5±0.15mm	6mm^2	Φ4.9±0.15mm
	CC/CP	0.75mm^2	Φ1.8±0.1mm	0.75mm^2	Φ1.8±0.1mm	0.75mm^2	Φ1.8±0.1mm

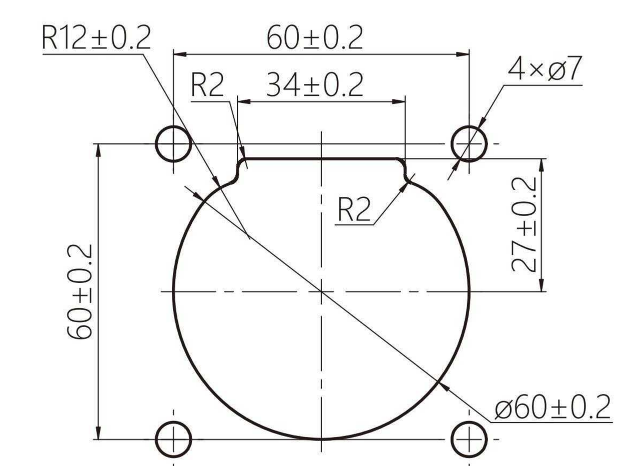
YG691-120
YG691-120 AC vehicle inlet (GB)（with ring indicator lamp)

Product 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.Customizing the indicator lamp.



Recommended installation hole size

Technical data sheet							
Project/Specification		10A		16A		32A	
Type of interface		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 Mode 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
StandWithstand voltageard		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℃					
Ambient lighting		With 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	Contact	Section specification	OD of cable	Section specification	OD of cable	Section specification	OD of cable
	L1/L2/L3 单相产品无L2/L3	2.5mm^2	Φ3.5±0.15mm	2.5mm^2	Φ3.5±0.15mm	6mm^2	Φ4.9±0.15mm
	N	2.5mm^2	Φ3.5±0.15mm	2.5mm^2	Φ3.5±0.15mm	6mm^2	Φ4.9±0.15mm
	PE	2.5mm^2	Φ3.5±0.15mm	2.5mm^2	Φ3.5±0.15mm	6mm^2	Φ4.9±0.15mm
	CC/CP	0.75mm^2	Φ1.8±0.1mm	0.75mm^2	Φ1.8±0.1mm	0.75mm^2	Φ1.8±0.1mm

YG-ENN

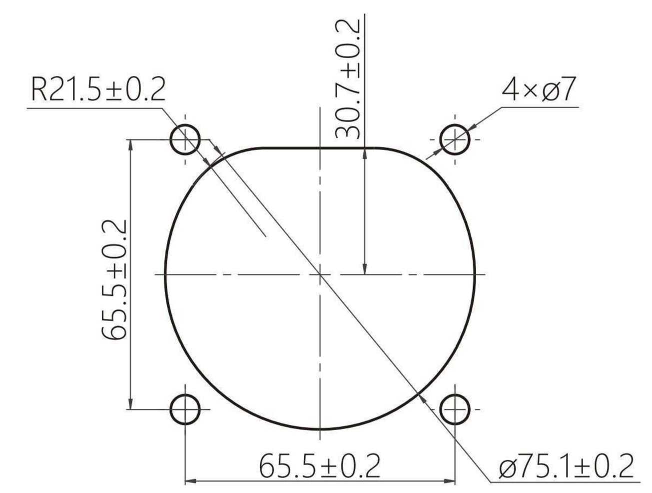
YG-ENN AC vehicle inlet(Type 2)

Product 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.Customizing the indicator lamp.



Recommended installation hole size

Technical data sheet					
Project/Specification		16A		32A	
Type of interface		Single phase	Three phase	Single phase	Three phase
Standard		IEC62196-1 IEC62196-2			
Mode		Mode 2 Mode 3			
Rated voltage		250V AC	480V AC	250V AC	480V AC
Rated current		16A AC	16A AC	32A AC	32A AC
StandWithstand voltageard		1.Between PP/CP and L1/L2/L3/N/PE⩾2500V AC 1min Note:In the single-phase case, the test number 1 can beperformed at a voltage of 2000V AC 1min			
Insulation resistance		Any two of L1/L2/L3/N/PE/CC/CP⩾200MΩ 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 lighting		-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
	L1/L2/L3 单相产品无L2/L3	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	N	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	PE	2.5mm²	Φ2.5±0.15mm	6mm²	Φ4.9±0.15mm
	CC/CP	0.5mm²	Φ1.5±0.1mm	0.5mm²	Φ1.5±0.1mm

YG-GBC
DC vehicle charger （GB)

Product application

Suitable for the corresponding standard DC charging equipment of China area

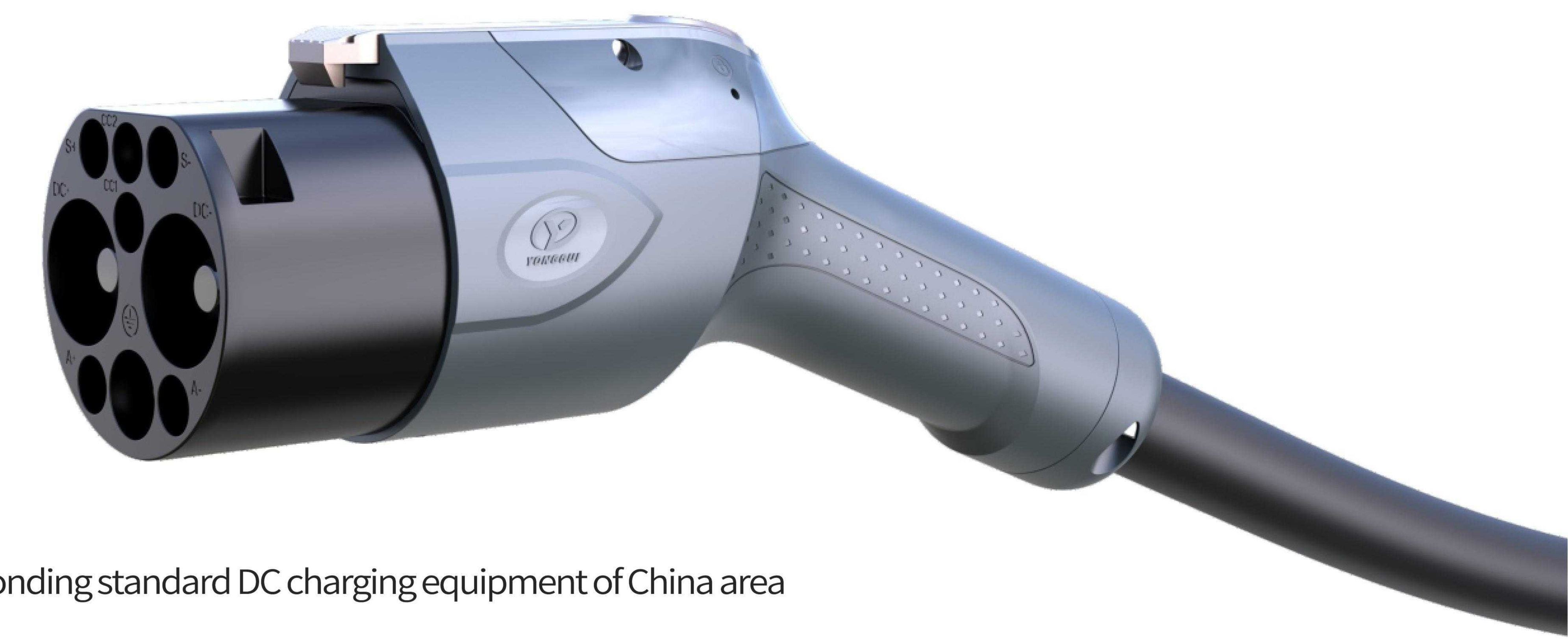
Customization

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	YG-GBC-DC125	YG-GBC-DC 200	YG-GBC-DC250	YG-GBC-DC300
Standard	GB/T 18487.1-2023(2015可选) GB/T 20234.1-2023 GB/T 20234.3-2023			
Mode	Mode 4， Mode C			
Rated voltage	750V/1000V DC			
Rated current	125A DC	200A DC	250A DC	300A DC
Withstand voltage	1.Between DC+ and DC-⩾3500V AC 1 min； 2.Between DC+/DC- and PE/S+/S-/A+/A-⩾1500V AC 1 min； 3.Between PE and S+/S-/A+/A-⩾1500V AC 1 min； 4.Any two of S+/S-/A+/A-⩾1500V AC 1 min； 5.Between DC+/DC- and temperature controller unit ⩾3500V AC 1 min Note:a.Both 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.Both 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	UL 94 V-0			
Surface material of power contacts	Ag			
OD of cable	Φ28±0.6mm	Φ33.5±0.6mm	Φ33.5±0.5mm	Φ38±1mm
Cable structure	EVDC-REYU 1.0kV 4×16+1×6+2×2.5+2×0.5(P2)+9×0.5	EVDC-REYU 1.0kV 4×30+1×6+2×2.5+2×0.5(P2)+9×0.5	EVDC-REYU 1.0kV 4×35+1×6+2×1.5+2×0.5(P2)9×0.5	EVDC-REYU 1.0kV 4×50+1×6+2×2.5+2×05(P2)+9×0.5
Applicable model of empty seat	Specification	Name	Model	Code
	DC empty seat(without feedback)	YG762-201-00-00KR直流空座	YG762-201-00-00KR	111000502155
	DC empty seat(with a feedback)	YG762-201-00-00KR/01带反馈直流空座(常开)	YG762-201-00-00KR/01	111000502203

YG1461
YG1461 low DC vehicle charger (GB)



Product 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	10A	16A	32A	50A	80A
Standard	GB/T 18487.1-2023，GB/T 20234.1-2023，GB/T 20234.3-2023				
Mode	Mode 4， Mode C				
Rated voltage	750V/1000V DC				
Rated current	10A	16A	32A	50A	80A
Cable structure	2×1.5+1×6+2x1.5 +3x0.5（P2）+7×0.5	2×2.5+1×6+2x1.5 +3x0.5（P2）+7×0.5	3×6+2x1.5 +3x0.5（P2）+7×0.5	3×10+2x1.5 +3x0.5（P2）+7×0.5	3×16+2x1.5 +3x0.5（P2）+7×0.5
OD of cable	Φ19.5±0.5mm	Φ21±0.5mm	Φ21±0.5mm	Φ24±0.6mm	Φ24±0.6mm
Minimum bend radius	6×OD				
Ambient temperature	-30℃~+50℃				
Surface material of power contacts	Ag				
Cycles life	⩾10000				
Insertion/withrawal force	＜140N				
Degree of protection	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)				
Flame retardant rating	UL94 V-0				

YG762A
DC vehicle charger（GB）

Product 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 Cold pressing	125A Cold pressing	160A Cold pressing	200A Cold pressing	250A Cold pressing	250A Ultrasonic
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015					
Mode	Mode4， Mode C					
Rated voltage	750V/1000V DC					
Rated current	80A DC	125A DC	160A DC	200A DC	250A DC	250A DC
Withstand voltage	1.Between DC+ and DC-≥3500V AC 1 min； 2.Between DC+/DC- and PE/S+/S-/A+/A-≥1500V AC 1 min； 3.Between PE and S+/S-/A+/A-≥1500V AC 1 min； 4.Any two of S+/S-/A+/A-≥1500V AC 1 min； 5.Between DC+/DC- and temperature controller unit ≥3500V AC 1 min Note:a.Both 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.Both of CC1/CC2/PE are joined together,select an arbitrary contact to test.					
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	UL 94 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	Specification	Name		Model	Code	
	DC empty seat(without feedback	YG762-201-00-00KF DC empty seat		YG762-201-00-00KR	111000502155	
	DC empty seat(with a feedback)	YG762-201-00-00KR/01DC empty seat (with a normally open feedback switch)		YG762-201-00-00KR/01	111000502203	

YG1352A
DC vehicle charger（GB）

Product 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

Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015		
Mode	Mode4， Mode C		
Rated voltage	1000V DC		
Rated current	600A DC		
Withstand voltage	1.Between DC+ and DC-≥3500V AC 1 min； 2.Between DC+/DC- and PE/S+/S-/A+/A-≥1500V AC 1 min； 3.Between PE and S+/S-/A+/A-≥1500V AC 1 min； 4.Any two of S+/S-/A+/A-≥1500V AC 1 min； 5.Between DC+/DC- and temperature controller unit ≥3500V AC 1 min Note:a.Both 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.Both of CC1/CC2/PE are joined together,select an arbitrary contact to test.		
Degree of protection	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)	Bending radius	The minimum radius of normal flow is 10D; Minimum storage radius 5D (coil)
Cycles life	≥10000	Cooling circuit	1 in,2 out
Insertion/withdrawal force	＜140N	Cooling pipe diameter	liquid inlet:inner diameter,outer diameter,liquid discharge
Ambient temperature	-30℃ ~+ 50℃	Min flow	4L/min
The type of temperature controlled device(optional)	PT1000	Max pressure	5Bar
Flame retardant rating	UL 94 V-0	Cooling medium	Degradable organic preparations
Surface material of power contacts	Ag	Medium temperature	≤ambient temperature5℃
OD of cable	Φ30±0.6mm		

YG1352A
Water cooled high power DC chargr(GB)

Product 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				
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.3-2015			
Mode	Mode 4， Mode C			
Rated voltage	750V/1000V DC			
Rated current	500A DC			
Withstand voltage	1.DC+、DC-之间≥3500V AC 1min; 2.Between DC+/DC- and PE/S+/S-/A+/A-≥1500V AC 1 min； 3.Between PE and S+/S-/A+/A-≥1500V AC 1 min； 4.Any two of S+/S-/A+/A-≥1500V AC 1 min； 5.Between DC+/DC- and temperature controller unit ≥3500V AC 1 min Note:a.Both 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.Both 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)	PT1000			
Flame retardant rating	UL 94 V-0			
Surface material of power contacts	Ag			
OD of cable	Φ24±0.6mm			
Bending radius	The minimum radius of normal flow is 10D; Minimum storage radius 5D (coil)			
Cooling circuit	1 in,1 out			
Cooling pipe diameter	Φ4.5mm； Φ6.5mm			
Min flow	1L/min			
Max pressure	2.5Bar			
Cooling medium	vehicle coolant(glycol solution)			
Medium temperature	ambient temperature			
Empty seat models	Specification	Name	Model	Code
	DC empty seat(without feedback	YG762-201-00-00KR DC empty seat	YG762-201-00-00KR	111000502155
	DC empty seat(with a feedback)	YG762-201-00-00KR/01 DC empty seat (with a normally open feedback switch)	YG762-201-00-00KR/01	111000502203

YG1403
YG1403 DC vehicle charger (CCS2)

Product 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	125A		200A		250A	300A
Standard	IEC 62196-1 IEC 62196-3						
Mode	Mode 4， Mode C						
Rated voltage	1000V DC						
Rated current	80A	125A		200A		250A	300A
Withstand voltage	Note:a.Both 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	Note:a.Both 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.						
Degree of protection	The minimum radius of normal flow is 10D; Minimum storage radius 5D (coil)						
Cycles life	≥10000						
Insertion/withdrawal force	＜100N						
Ambient temperature	-30℃~50℃						
The type of temperature controlled device(optional)	PT1000 / NTC						
Flame retardant rating	UL 94 V-0						
Surface material of power contacts	Ag						
OD of cable	Φ25±1mm	Φ27±1mm	Φ26.5+1/-0.5mm	Φ32±1mm	Φ34.5±1mm	Φ32±1mm	Φ34±0.8mm
Cable construction	2×25+1×6+(2×0.75)(P2) +3×(2×0.75) 2×25+1×16+(2×0.75)(P2) +2×(2×0.75)	2×35+1×6+(2×0.75)(P2) +3×(2×0.75)	2×35+1×16+(2×0.75)(P2) +2×(2×0.75)	4×35+1×6+(2×0.75)(p2) +2×(3×0.75) 2×70+1×6+(2×0.75)(P2) +3×(2×0.75)	2×70+1×25+(2×0.75)(P2) +2×(2×0.75)	4×35+1×6+(2×0.75)(P2) +2×(3×0.75) 4×40+1×6+(2×0.75)(P2) +2×3×0.75)	4×50+1×6+(2×0.75)(P2) +2×(3×0.75)
Empty seat models	Specification		Name		Model		Code
	Type2 integrated vehicle empty inlet		YG1403 integrated vehicle empty inlet module （M6X25)		YG1403-103-00-00KR		111009802241

YG-MCS
DC vehicle charger

Product application

Suitable for the corresponding MCS standard DC charging equipment

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	
Standard	IEC TS 63379; SAE J3271-1~5
Mode	Mode 4，connection type C
Rated voltage	1000V DC
Rated current	1500A
Withstand voltage	1.Between DC+ and DC-≥3500V AC 1min; 2.Between DC+, DC- and PE, CP, PP ≥1500V AC 1min;
Insulation resistance	1.Between DC+ and DC-≥100MΩ; 1000V DC 2.Between DC+/DC-and PE/CP/PP≥100MΩ; 1000V DC
Cycles life	≥10000 times
Insertion/withrawal	≤100N
Ambient temperature	-30°C~50°C
The type of temperature controlled device (optional)	PT1000 or NTC
Flame retardant rating	UL 94V-0
Surface material of power contacts	Ag
OD of cable	43.5±0.5
Cooling circuit	4 in,2 out
Cooling pipe diameter	inner Ø14mm,outer Ø10mm
Min flow	8L/min
Max pressure	7 bar
Cooling medium	Degradable organic preparations
Medium temperature	≤ambient temperature+5°C

PRODUCT PARAMETER INTRODUCTION
产品参数介绍

YG-NACS
High power vehicle charger

Product application

Suitable for the corresponding NACS standard DC charging equipment

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	
Standard	EC 61851-1,IEC 61851-23 IEC 62196-1/2/3,IEC 62196-23
Mode	Mode 4，connection type C
Rated voltage	1000V DC
Rated current	600A
Withstand voltage	1.HV+, HV- ≥3500V AC 1min; 2. The distance between HV+ and HV- and GND, CP and PP is ≥1500V AC 1min respectively; 3.GND, CP, PP pair to each other ≥1500V AC 1min;
Insulation resistance	1.HV+, HV- ≥500MΩ (1000V DC); 2.HV+, HV- and GND, CP, PP are respectively between ≥500MΩ (1000V DC); 3.GND, CP, PP between each other ≥500MΩ (1000V DC)
Cycles life	≥10000 times
Insertion/withrawal	≤100N
Ambient temperature	-30°C~50°C
The type of temperature controlled device (optional)	PT1000
Flame retardant rating	UL 94V-0
Surface material of power contacts	Ag
OD of cable	32.5±0.5
Cooling circuit	2 in,2 out
Cooling pipe diameter	inner Ø13mm,outer Ø8mm
Min flow	1.8L/min
Max pressure	2.7 bar
Cooling medium	Degradable organic preparations
Medium temperature	≤ambient temperature+5°C

YG1403
liquid cooled high power DC charger (CCS2)

Product application

Suitable for the corresponding standard DC charging equipment of European Union area
（A suitable liquid cooling system is required）

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				
Standard	IEC 62196-1、IEC 62196-3、IEC 62196-3-1			
Mode	Mode 4、. Mode C			
Rated voltage	1000V DC			
Rated current	600A			
Withstand voltage	1.Between DC+ and DC-⩾3500V AC 1min; 2.Between DC+/DC- and PE⩾1500V AC 1 min;			
Insulation resistance	1.Between DC+ and DC-⩾3500V AC 1min; 2.Between DC+/DC- and PE⩾1500V AC 1 min;			
Degree of protection	Overall:IP44;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)	PT1000或NTC			
Flame retardant rating	UL 94 V-0			
Surface material of power contacts	Ag			
OD of cable	Φ30.5±1mm			
Bending radius	305mm			
Cooling circuit	1 in,2 out			
Cooling pipe diameter	Φ6mm Φ10mm			
Min flow	1.8L/min			
Max pressure	2.7 bar			
Cooling medium	Degradable organic preparations			
Medium temperature	⩽ambient temperature+5℃			
Empty seat models	Specification	Name	Model	Code
	Type2 integrated vehicle empty inlet	YG1403 integrated vehicle empty inlet module（M6X25）	YG1403-103-00-00KR	111009802241

YG-GBCP
Model 2 AC vehicle charger cable subassembly(GB)

Product 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.The shell black and white two colors are optional, support color customization

Technical data sheet			
Project/Specification		10A	16A
Power supply type		Single phase	Single phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015	
Mode		Mode 2， Mode B	
Rated voltage		220V AC	220V AC
Rated current		8A AC	13A AC
Withstand voltage		Between L1/N and PE⩾2000V AC 1min;	
Insulation resistance		Between L1/N and PE⩾500MΩ； 500V DC	
Degree of protection	Chargr	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)	
	Control box	IP67	
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	Charger	Φ13±0.3mm	Φ13±0.3mm
	Plug	Φ10.5±0.3mm	Φ10.5±0.3mm
Cable construction	Charger	3×1.5+1×0.75	3×2.5+1×0.75
	Plug	3×1.5	3×2.5

YG1143
Model 2 AC vehicle charger cable subassembly(GB)

Product 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.The shell black and white two colors are optional, support color customization

Technical data sheet			
Project/Specification		10A	16A
Power supply type		Single phase	Single phase
Standard		GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015	
Mode		Mode Mode	
Rated voltage		220V AC	220V AC
Rated current		8A AC	13A AC
Withstand voltage		Between L1/N and PE⩾2000V AC 1min;	
Insulation resistance		Between L1/N and PE⩾500MΩ； 500V DC(Except the interface with socket)	
Degree of protection	Chargr	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)	
	Control box	IP67	
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	Charger	Φ13±0.3mm	Φ13±0.3mm
	Plug	Φ10.5±0.3mm	Φ10.5±0.3mm
Cable construction	Charger	3×1.5+1×0.75	3×2.5+1×0.75
	Plug	3×1.5	3×2.5

YG1143
AC vehicle charger (GB/Mode 3 and case B connection)

Product 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 shell black and white two colors are optional, support color customization

Technical data sheet					
Project/Specification	10A	16A		32A	
Power supply type	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 3， ModeC				
Rated voltage	250V AC	250V AC	440V AC	250V AC	440V AC
Rated current	10A AC	16A AC	16A AC	32A AC	32A AC
Withstand voltage	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 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	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 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	＜100N				
Ambient temperature	-30℃ ~ +50℃				
Flame retardant rating	UL94 V-0				
Surface material of power contacts	Between L1/N and PE⩾500MΩ； 500V DC Ag				
OD of cable	Φ11±0.3mm	Φ13±0.3mm	Φ15.5±0.5mm	Φ15.5±0.5mm	Φ19.5±0.5mm
Cable construction	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
Empty seat models	Specification	Name		Model	Code
	Empty socket with feedback hanging gun (split type)	YG1143-201-00-00KR/01 AC empty socket with feedback (normally open)		YG1143-201-00-00KR/01	111000502204
	Empty socket with no feedback hanging gun (split type)	YG1143-201-00-00KR AC empty socket		YG1143-201-00-00KR	111000502154
	Empty socket with no feedback hanging gun (integrated type)	YG1143-201-00-00KR/02 AC intergrated empty socket		YG1143-201-00-00KR/02	111000502206

YG1348
Model 2 integrated AC vehicle charger(GB)

Product 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

Technical data sheet		
Project/Specification	10A	16A
Power supply type	Single phase	Single phase
Standard	GB/T 18487.1-2015 GB/T 20234.1-2015 GB/T 20234.2-2015	
Mode	Mode2 Mode B	
Rated voltage	220V AC	220V AC
Rated current	8A AC	13A AC
Withstand voltage	Between L1/N and PE⩾2000V AC 1min;	
Insulation resistance	Between L1/N and PE⩾500MΩ (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 construction	3×1.5	3×2.5

YG-ENCP
Model 2 AC vehicle charger cable subassembly(Type 2)

Product application

Suitable for the corresponding standard model 2 charging of European Union area

Customization

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

Technical data sheet			
Project/Specification		10A	16A
Power supply type		Single phase	Single phase
Standard		IEC62196-1 IEC62196-2 IEC 62752	
Mode		Mode 2， Mode B	
Rated voltage		220V AC	220V AC
Rated current		8A AC	13A AC
Withstand voltage		Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)	
Insulation resistance		Between L1/N and PE≥500MΩ（500V DC）	
Degree of protection	Chargr	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)	
	Control box	IP67	
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	Charger	Φ10±0.3mm	Φ10±0.3mm
	Plug	Φ8.5±0.3mm	Φ8.5±0.3mm
Cable construction	Charger	3×1.5+1×0.75	3×2.5+1×0.75
	Plug	3×1.5	3×2.5

PRODUCT PARAMETER INTRODUCTION P
产品参数介绍

YG-ENCP
AC vehicle charger cable subassembly (Type 2/Model 3 and case B connection)

Product application

Suitable for the corresponding standard model 3 charging of European Union area

Customization

1.The customer's logo
2.The type and length of cable
3.Support color customization

Technical data sheet						
Project/Specification	13A		20A		32A	
Power supply type	Single phase	Three phase	Single phase	Three phase	Single phase	Three phase
Standard	IEC62196-1 IEC62196-2					
Mode	Mode 3， Mode B					
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
Withstand voltage	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 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	Any two of L1/L2/L3/N/PE/CP≥500MΩ（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-ENC
AC vehicle charger
(Type 2/Model 3 and case C connection)

Product application

Suitable for the corresponding standard model 3 charging 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
4.Support color customization

Technical data sheet						
Project/Specification	13A		20A		32A	
Power supply type	Single phase	Three phase	Single phase	Three phase	Single phase	Three phase
Standard	IEC62196-1 IEC62196-2					
Mode	Mode 3 Mode C					
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
Withstand voltage	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 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	Any two of L1/L2/L3/N/PE/CP⩾500MΩ（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

YG740D
AC vehicle charger
(Type 1/Model 3 and case C connection)

Product 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.Support color customization

Technical data sheet			
Project/Specification	15A	20A	32A
Power supply type	Single phase	Single phase	Single phase
Standard	IEC 62196-2 SAE J1772		
Mode	Mode 3 Mode C		
Rated voltage	250V AC	250V AC	250V AC
Rated current	15A AC	20A AC	32A AC
Withstand voltage	1.Between L1 and N⩾2500V AC 1min 2.Between PE and L1/N⩾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	Any two of L1/N/PE/CP⩾500MΩ（1000V DC）		
Degree of protection	Before insertion:IP54;After insertion:IP55		
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 construction	3×14AWG+18AWG	3×14AWG+18AWG	3×10AWG+18AWG

Empty seat models	Specification	Name	Model	Code
	Empty socket with no feedback hanging gun（integrated type)	Type 1 AC intergrated empty socket module（M6X25)	YG740D-101-00-00KR	111009802206

YG-NACSN

Tesla integrated vehicle inlet（NACS)

Product application

Suitable for the corresponding NACS standard AC charging equipment

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	
Standard	IEC 61851-1,IEC 61851-23 IEC 62196-1/2/3,IEC 62196-23
Mode	Mode 4，connection type C
Rated voltage	500V
Rated current	80A
Withstand voltage	1.HV+, HV- ≥3000V AC 1min; 2. The distance between HV+ and HV- and GND, CP and PP is ≥1500V AC 1min respectively; 3.GND, CP, PP pair to each other ≥1500V AC 1min;
Insulation resistance	1.HV+, HV- ≥500MΩ (1000V DC); 2.HV+, HV- and GND, CP, PP are respectively between ≥500MΩ (1000V DC); 3.GND, CP, PP between each other ≥500MΩ (1000V DC)
Degree of protection	IP44 mating with a socket; Electrical part: IP67
Insertion/withrawal	≤100N
Ambient temperature	-30°C~50°C
The type of temperature controlled device（optional)	PT1000
Flame retardant rating	UL 94V-0
Surface material of power contacts	Ag
OD of cable	19.4±0.4mm

放电应用产品

Discharge application products

05

YG196-455
Discharge gun(GB)

Product application

Suitable for electric vehicle V2L applications with corresponding standards in China

Customization

1.The customer's logo
2.Support color customization

Technical data sheet		
Project/Specification		16A
Power supply type		Single phase
Standard		GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 2099.7-2015
Mode		Mode 1.1 , Connection type B
Rated voltage		220V AC
Rated current		16A AC
Withstand voltage		1.Between L1 and N⩾2000V AC 1min 2.Between PE and L1/N⩾1500V AC 1min Note:Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation resistance		Any two of L1/N/PE⩾500MΩ（500V DC）
Degree of protection	Charger	插合前IP54 ；插合后IP55
	Plug	IP55
Cycles life	Charger	⩾10000
	Plug	⩾5000
Insertion/withdrawal force		＜100N
Ambient temperature		-30℃ ~ +50℃
Flame retardant rating		UL94 V-0
Surface material of power contacts		Ag

YG1143
Discharge gun(GB)

Product application

Suitable for electric vehicle V2L applications with corresponding standards in China

Customization

1.The customer's logo
2.Support color customization
3.The type and length of cable

Technical data sheet		
Project/Specification		16A
Power supply type		Single phase
Standard		GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 2099.7-2015
Mode		Mode 1.1 Connection type B
Rated voltage		220V AC
Rated current		16A AC
Withstand voltage		1.Between L1 and N≥2000V AC 1min 2.Between PE and L1/N≥1500V AC 1min Note:Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation resistance		Any two of L1/N/PE≥500MΩ（500V DC）
Degree of protection	Charger	插合前IP54；插合后IP55；电气部分：IP67（与插座对插连接界面除外）
	Plug	IPXXB
Cycles life	Charger	≥10000
	Plug	≥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 construction		3×1.5

YG
Discharge gun(GB)

Product application

Suitable for electric vehicle V2L applications with corresponding standards in China

Customization

1.The customer's logo
2.Support color customization
3.The type and length of cable

Technical data sheet		
Project/Specification		10A
Power supply type		Single phase
Standard		GB/T 20234.1-2015 GB/T 20234.2-2015 GB/T 2099.7-2015
Mode		Mode 1.1，Connection type B
Rated voltage		220V AC
Rated current		10A AC
Withstand voltage		1.Between L1 and N≥2000V AC 1min 2.Between PE and L1/N≥1500V AC 1min Note:Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation resistance		Any two of L1/N/PE≥500MΩ（500V DC）
Degree of protection	Charger	插合前IP54；插合后IP55
	Plug	IP55
Cycles life	Charger	≥10000
	Plug	≥5000
Insertion/withdrawal force		＜100N
Ambient temperature		-30℃ ~ +50℃
Flame retardant rating		UL94 V-0
Surface material of power contacts		Ag

YG-ENDC
Discharge gun(Type 2)

Product application

Suitable for electric vehicle V2L applications with corresponding standards in European Union area

Customization

1.The customer's logo
2.Support color customization
3.The type and length of cable

Technical data sheet		
Project/Specification		16A
Power supply type		Single phase
Standard		IEC62196-1　IEC62196-2　IEC 60884-1
Mode		Mode1.1 Connection type B
Rated voltage		220V AC
Rated current		16A AC
Withstand voltage		1.Between L1 and N⩾2000V AC 1min 2.Between PE and L1/N⩾1500V AC 1min Note:Both of CC/PE are joined together,select an arbitrary contact to test.
Insulation resistance		Any two of L1/N/PE⩾500MΩ（500V DC）
Degree of protection	Charger	Before insertion:IP54;After insertion:IP55;Electrical part:IP67(Except the interface with socket)
	Discharge strip	IPXXB
Cycles life	Charger	⩾10000
	Discharge 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		Φ9.8±0.2mm
Cable construction		3×2.5

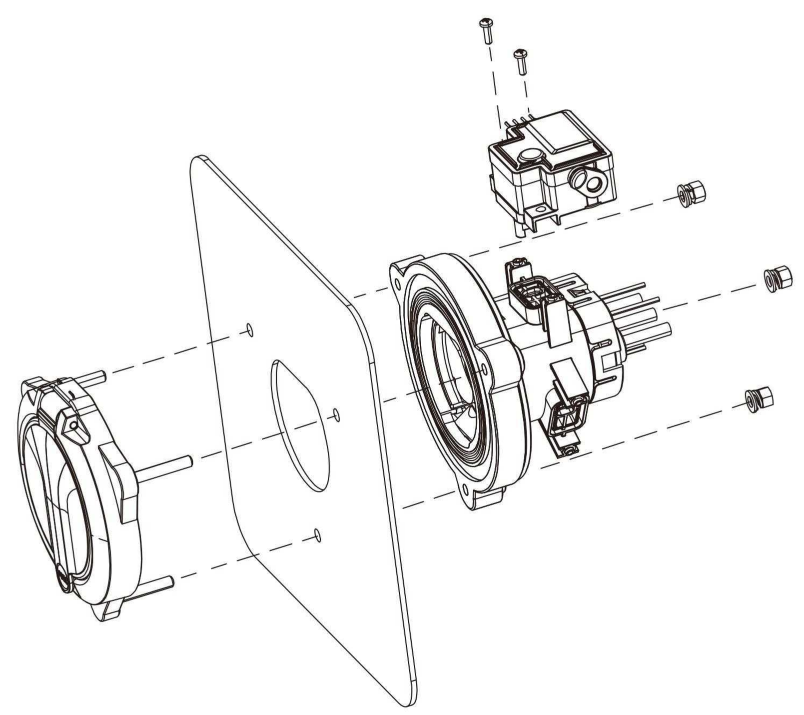
YG-ENS
AC socket-outlet(Type 2)

Product application

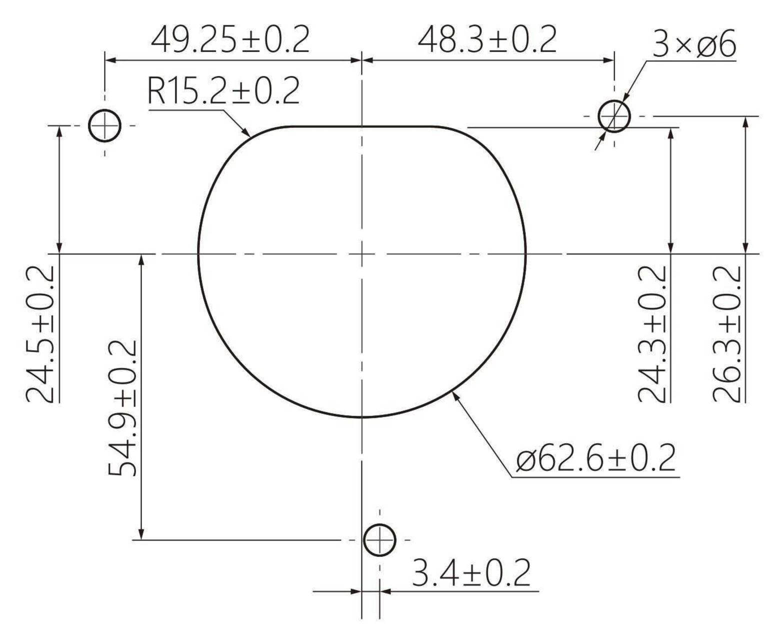
Suitable for electric vehicle V2L applications with corresponding standards in China

Customization

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



Product installation diagram



Recommended installation hole size

Technical data sheet							
Project/Specification		10A		16A		32A	
Power supply type		Single phase		Single phase	Three phase	Single phase	Three phase
Standard		IEC62196-1 IEC62196-2					
Mode		Mode 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
Withstand voltage		1.Any two of L1/L2/L3/N/PE⩾2500V AC 1min 2.Between PP、CP and L1/L2/L3/N/PE⩾1500V AC 1min Note:In the single-phase case, the test number 1 can beperformed at a voltage of 2000V AC 1min					
Insulation resistance		Any two of L1/L2/L3/N/PE/PP/CP⩾500MΩ（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)		temperature sensor					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Cable size	Cable size	OD of cable	Cable size	Cable size	Cable size
	L1/L2/L3 单相产品无L2/L3	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	N	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	PE	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	CC/CP	0.75mm²	Φ1.8±0.1 mm	0.75mm²	Φ1.8±0.1 mm	0.75mm²	Φ1.8±0.1 mm

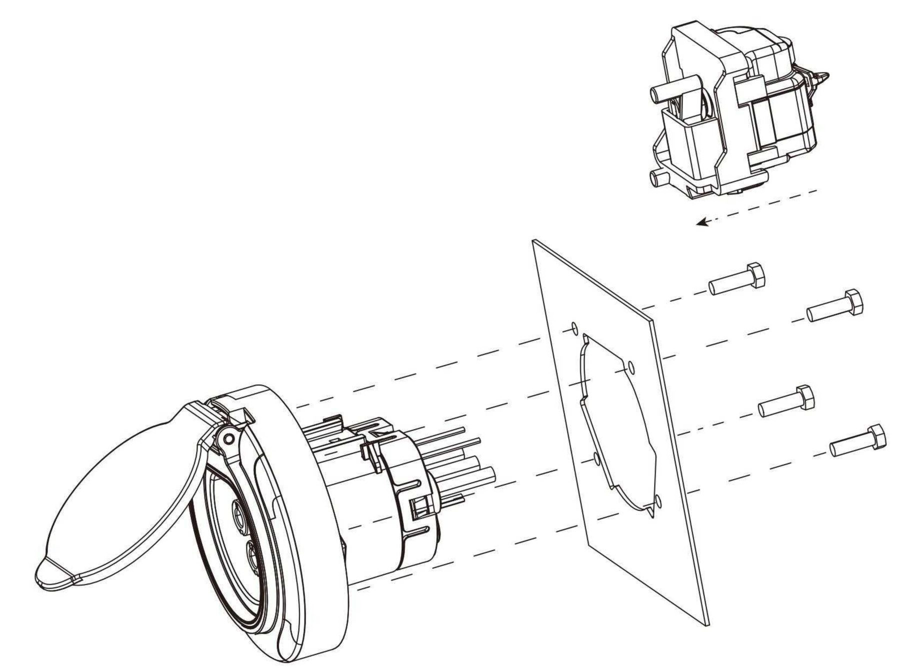
YG1418
AC socket-outlet(Type 2)

Product application

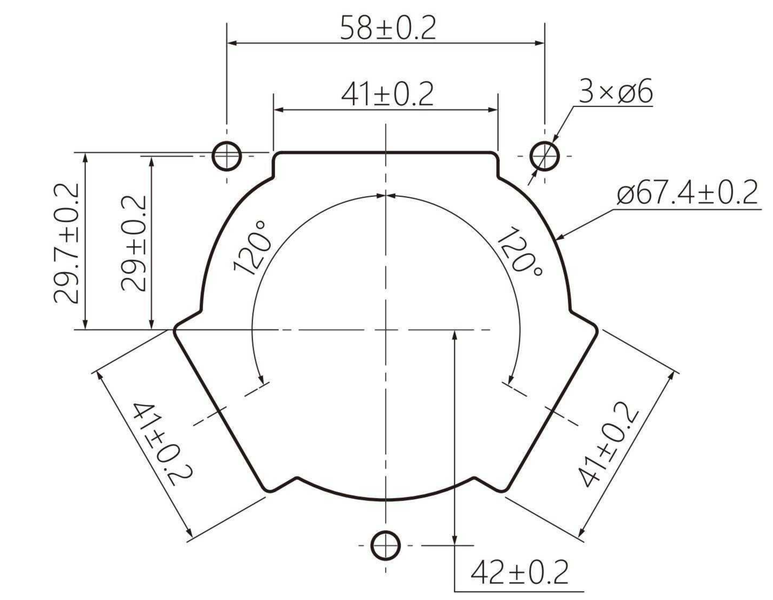
Suitable for electric vehicle V2L applications with corresponding standards in China

Customization

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



Product installation diagram



Recommended installation hole size

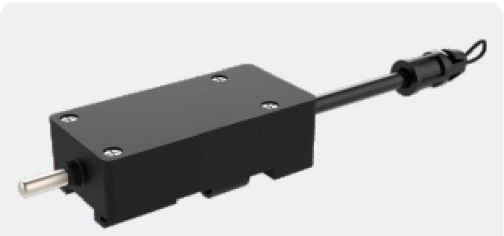
Technical data sheet							
Project/Specification		10A		16A		32A	
Power supply type		Single phase		Single phase	Three phase	Single phase	Three phase
Standard		IEC62196-1 IEC62196-2					
Mode		Mode 3					
Rated voltage		250V AC		250V AC	440V AC	250V AC	440V AC
Rated current		10A AC		16A AC	16A AC	32A AC	32A AC
Withstand voltage		1.Any two of L1/L2/L3/N/PE⩾2500V AC 1min 2.Between PP、CP and L1/L2/L3/N/PE⩾1500V AC 1min Note:In the single-phase case, the test number 1 can beperformed at a voltage of 2000V AC 1min					
Insulation resistance		Any two of L1/L2/L3/N/PE/PP/CP⩾500MΩ（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)		temperature sensor					
Flame retardant rating		UL94 V-0					
Surface material of power contacts		Ag					
OD of cable	Contact	Cable size	Cable size	OD of cable	Cable size	Cable size	Cable size
	L1/L2/L3 单相产品无L2/L3	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	N	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	PE	2.5mm²	Φ2.5±0.15 mm	2.5mm²	Φ2.5±0.15 mm	6mm²	Φ4.9±0.15 mm
	CC/CP	0.75mm²	Φ1.8±0.1 mm	0.75mm²	Φ1.8±0.1 mm	0.75mm²	Φ1.8±0.1 mm

YG196 series motor type electronic lock

Product application

DC motor electronic lock through the use of power supply voltage and reverse voltage, through the motor and mechanical structure to implement the telescopic movement of the lock rod, so as to achieve the locking function of AC charging gun; Contains a micro switch to achieve instant feedback on the current position of the lock rod (extended and retracted two states); Tail tie rod can be connected to wire rope and other components to achieve emergency release after abnormal power failure (manual)

YG196-406 motor electronic lock


●YG196-406直出线-电子锁


●YG196-406侧出线-电子锁

Action and feedback

Red +, yellow -, power out; Red -, yellow +, power retract (execute motor M); Blue/black, non-polar; Electronic lock out, S pass; Electronic lock retraction, S break (signal feedback)

schematic circuit diagram

Technical data sheet	
Working voltage	9-16V
Rated voltage	DC 12V
Locked-rotor current	<210mA
No-load current	<20mA
Insulation resistance	>100MΩ
Route	⩾5.9±0.5mm
Anti-interference unlocking force	⩾20N
Lock lever push force	⩾30N
Manual release force	⩽40N
Triggering time	600mS
Conduction time	600mS<T<1S
Locked-rotor time	<10S
Life time	⩾10万次
Ambient temperature	-30℃~85℃
Storage condition	-40℃~85℃
Environmental Index	Conform RoHS
Degree of protection	IP67

YG196-420 motor electronic lock

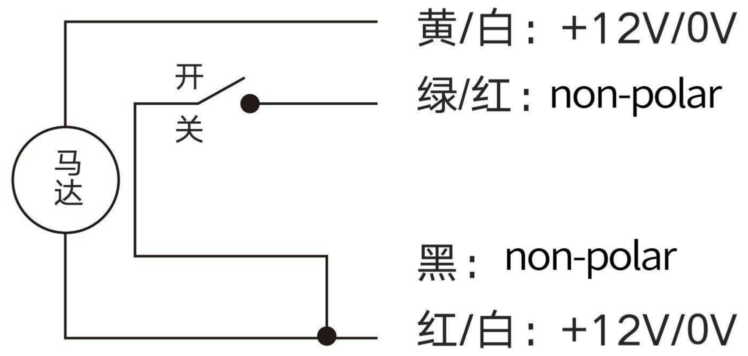

●YG196-420直出线-电子锁


●YG196-420侧出线-电子锁

Action and feedback

Yellow/White: +12V; Red/White: 0V, push rod extended, switch conduction; Yellow/White: 0V; Red/White: +12V, push rod retracted, switch off; After the push rod is extended, the wire cable can pull the push rod back.

schematic circuit diagram



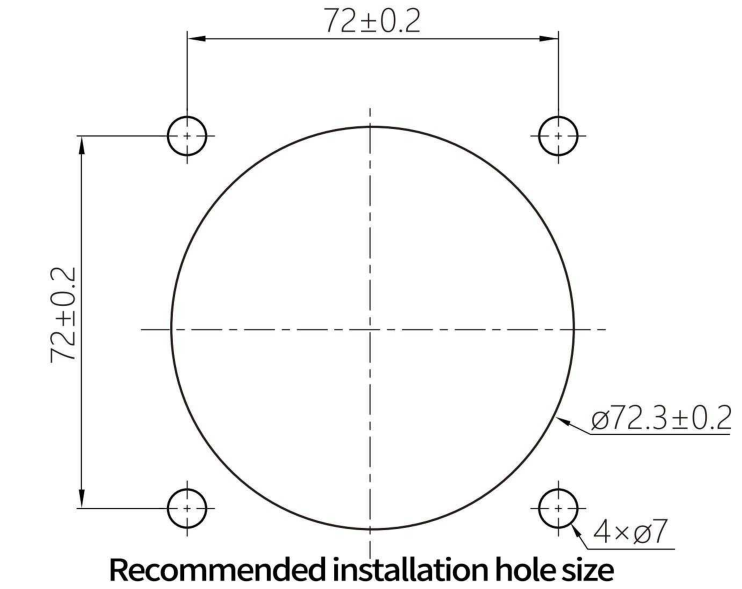
Technical data sheet	
Working voltage	DC 9-16V
Rated voltage	DC 12V±5%
Locked-rotor current	<250mA
Rated current	35mA
Route	⩾5.5mm
Lock lever push force	⩾15N
Lock lever push force	⩾20N
Manual release force	<40N
Conduction time	600mS<T<1S
Locked-rotor time	<10S
Life time	⩾10万次
Ambient temperature	-40℃~+85℃
Environmental Index	Conform RoHS
Degree of protection	IP67

Power supply type

YG762-201 DC empty socket series(GB)


GB DC empty socket - no feedback


GB DC empty socket - with feedback



Recommended installation hole size

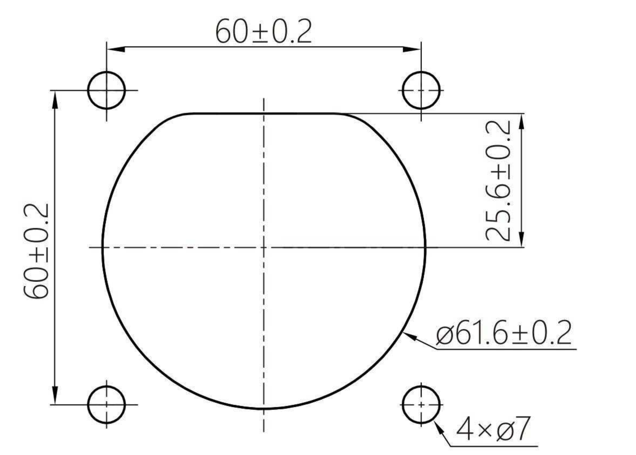
Product application Used to store the corresponding standard DC charging gun

Technical data sheet		
Project/Specification	YG762-201-00-00KR/0 with feedback(normally open)	YG762-201-00-00KR DC empty socket(normally open)
Standard	GB/T 20234.3	
Mounting	Front mount	
Model	YG762-201-00-00KR/01	YG762-201-00-00KR
Code	111000502203	111000502155
Feedback switch	●	○
Ambient temperature	-30℃ ~ +50℃	
Flame retardant rating	UL94 V-0	
Mounting screw	Socket head cap screw	

YG1143-201 AC empty seat series(GB)


GB DC empty socket - no feedback


GB DC empty socket - with feedback



Recommended installation hole size

Product application Used to store the corresponding standard AC charging gun

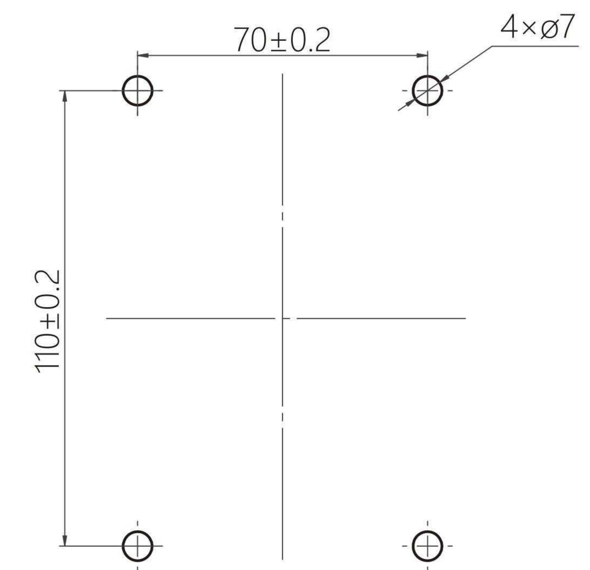
Technical data sheet		
Project/Specification	YG1143-201-00-00KR/01 with feedback (normally open)	YG1143-201-00-00KR AC empty socket (normally open)
Standard	GB/T 20234.2	
Mounting	Front mount	
Model	YG1143-201-00-00KR/01	YG1143-201-00-00KR
Code	111000502204	111000502154
Feedback switch	●	○
Ambient temperature	-30℃ ~ +50℃	
Flame retardant rating	UL94 V-0	
Mounting screw	Socket head cap screw	

YG1403-Type2
integrated DC empty seat (CCS2)

Product application

Used to store the corresponding standard DC charging gun

Technical data sheet	
Project/Specification	YG1403 Integrated DC empty seat module(CCS2) （M6X25）
Standard	IEC62196-1　IEC62196-3
Mounting	Front mount
Model	YG1403-103-00-00KR
Code	111009802241
Feedback switch	○
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Socket head cap screw



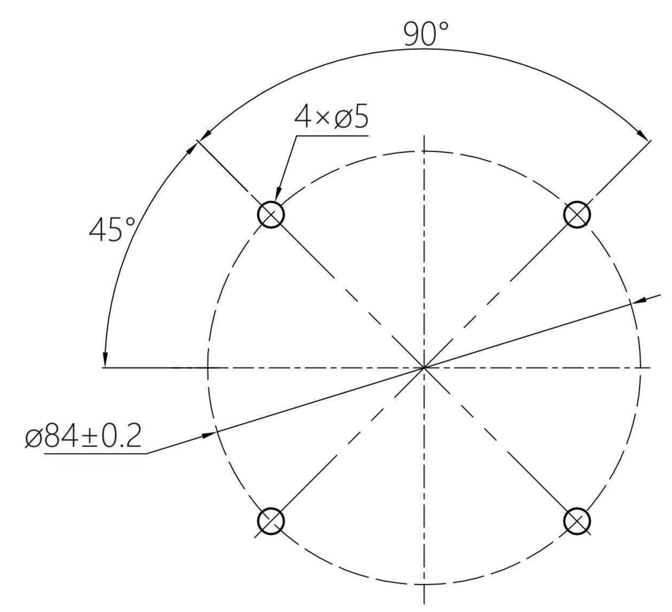
Recommended installation hole size

YG740C-Type2
AC empty seat(Type 2)

Product application

Used to store the corresponding standard DC charging gun

Technical data sheet	
Project/Specification	YG740C Integrated AC empty seat module(M4X16)
Standard	IEC62196-1　IEC62196-2
Mounting	Front mount
Model	YG740C-102-00-00KR
Code	111009802207
Feedback switch	○
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Socket head cap screw



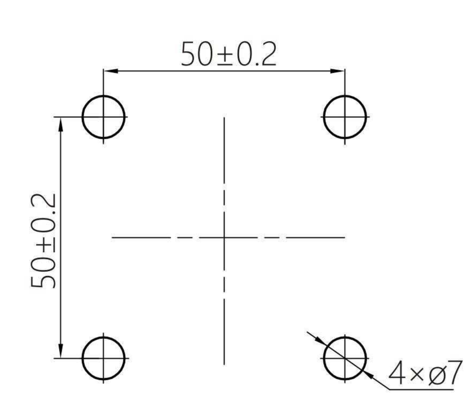
Recommended installation hole size

YG740D-Type1
AC empty seat(Type 1)

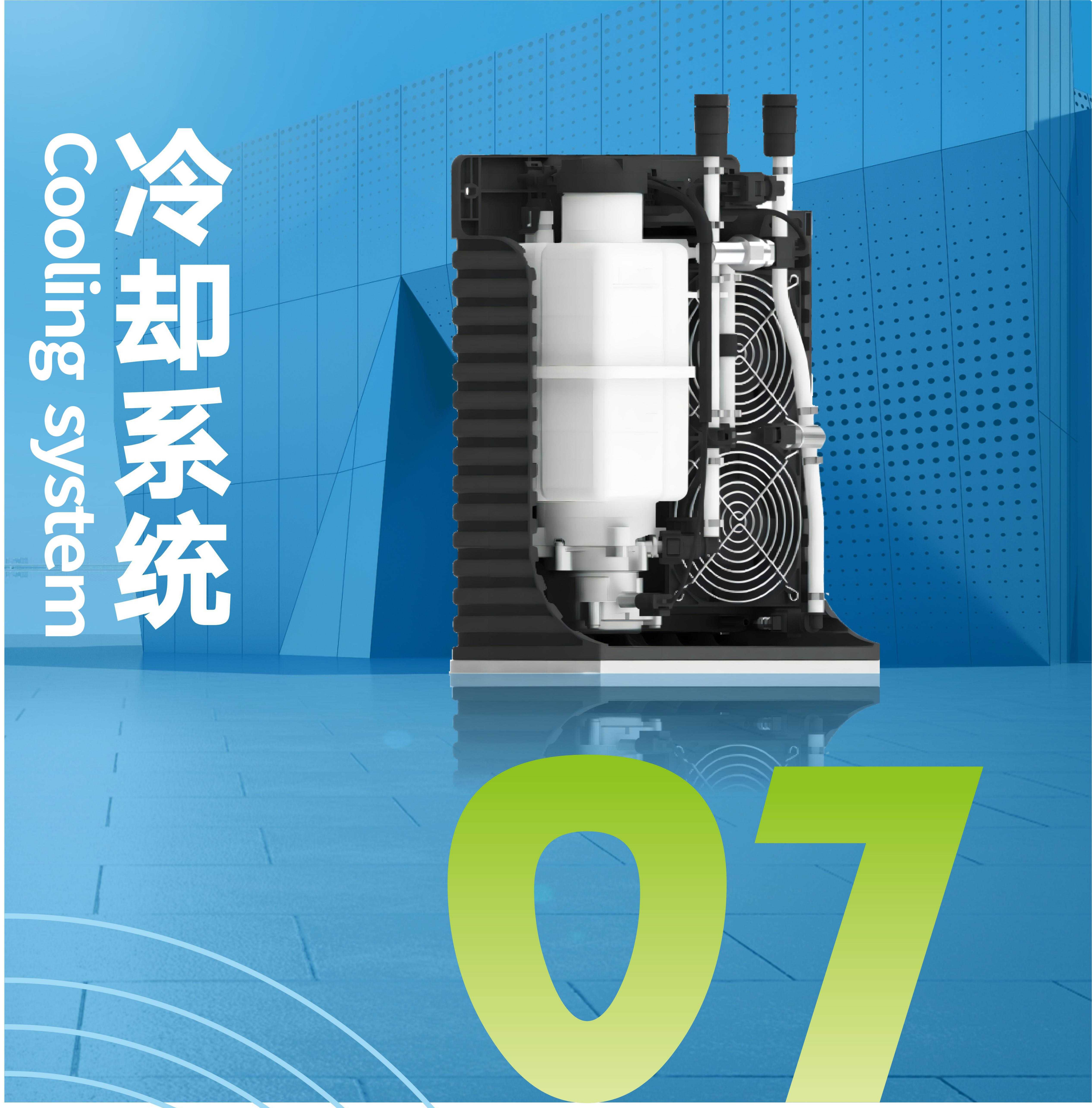
Product application

Used to store the corresponding standard DC charging gun

Technical data sheet	
Project/Specification	YG740C Integrated AC empty seat module(M6X25)
Standard	IEC 62196-2　SAE J1772
Mounting	Front mount
Model	YG740D-101-00-00KR
Code	111009802206
Feedback switch	○
Ambient temperature	-30℃ ~ +50℃
Flame retardant rating	UL94 V-0
Mounting screw	Socket head cap screw



Recommended installation hole size



冷却系统
Cooling system
07

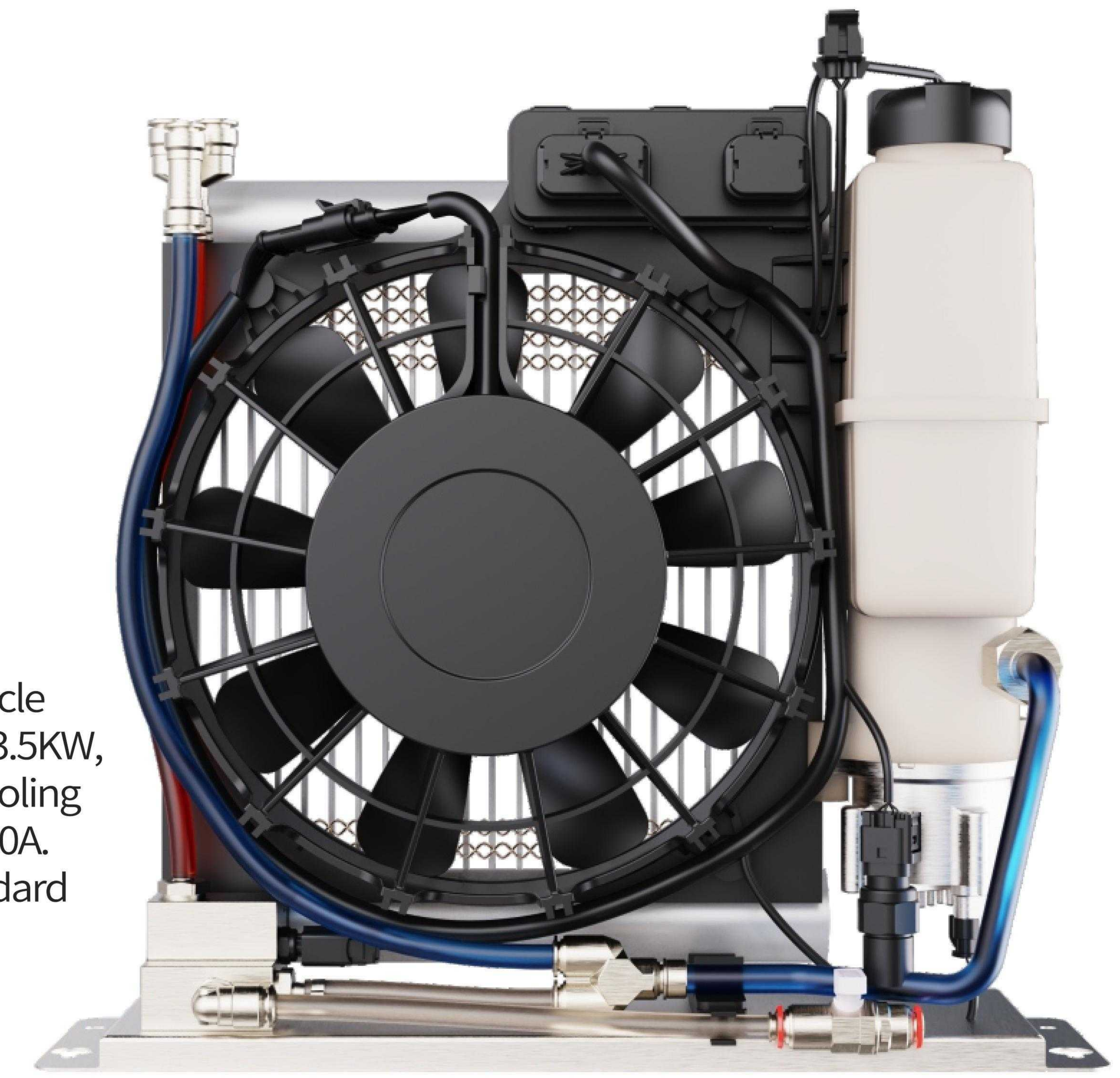
1.8kW
water-cooling system

Product application

This system is mainly used in the new energy vehicle liquid cooling charging pile, the cooling power is 1.7KW, the use of water + ethylene glycol (50:50) as the cooling medium, the charging current can reach 500A. Small size, easy installation, high integration.

Technical data sheet	
Size	L256*W136*H360（mm）With standard mounting base plate
Weight	3. 5kg
Input voltage	DC24V
Curren	Fan (24V)： Max 4.5A
	Pump(24V)： Max 3.5A
Feed pressure	0. 5MPa
Operating temperature	-30℃~+50℃
Noise	⩽60dB(A)
Control mode	Fully automati
Fluid connector	Self-locking fluid connector
Electrical connector	Waterproof quick-plug terminal
Heat exchange capacity	1.7kW(50℃)
Max power	⩽160W
Expansion pot volume	1. 5L
Cooling medium	Antifreeze (water + glycol)
Working pressure	0~5MPa
Cooling flow rate	0~2.5L/min可调
Degree of protection	IP67
Communication mode	Based on Modbus 485

3.5kW
oil-cooling system



Product application

This system is mainly used in the new energy vehicle liquid cooling charging pile, the cooling power is 3.5KW, the use of degradable oil-based coolant as the cooling medium, the charging current can reach 500A~800A. High product integration, space saving, with standard base plate, easy to install.

Technical data sheet	
Size	L435*W155*H410(mm) With standard mounting base plate
Weight	7kg
Input voltage	DC12V
Cooling medium	① Dimethyl silicone oil:② Shell E4 coolant:
Feed pressure	0.7MPa
Noise	⩽60dB(A)
Control mode	Fully automatic
Life	25000h
Heat exchange capacity	3.0KW@4L/min. 700m^3/h
Max power	⩽200W
Medium flow	4L/min@450kPa
Operating temperature	-30℃~+50℃
Expansion pot volume	1.5L
Degree of protection	IP68
Communication mode	Based on Modbus 485/232,level control

6kW
liquid-cooling system(both water and oil)

Product application

The system is mainly used in the new energy vehicle liquid cooling charging pile, heat dissipation power of 6KW, the system can use oil-based coolant, can also use 50% glycol solution as cooling medium, wide applicability.

Technical data sheet	
Product name	High power liquid cooling charging system
Model	YG-LCS-6.0kW-DC24
Overall size	L400*W370*H550mm
Radiator size	L400*W120*H550mm
Cooling medium	Dimethylsilicone oil or 50% glycol solution
Design heat dissipation capacity	6000W@10L/min，1500m^3/h，50℃
Form of communication	RS485
Overall power consumption	≤750W
Weight	30kg
System volume	3L
Cooling pipe material	PA12
Interface specification	Φ4*6/5*7/6*8/8*10mm
Ambient temperature	-40℃~+50℃
Storage temperature	-40℃~+85℃
Inlet temperature	≤85℃
Application environment	Inside charging terminal
Altitude	≤2000m

YG-GB6000 portable DC charger

Product application

This product is mainly used for DC charging of new energy vehicles in household scenarios. The product is small and can be equipped with the car and used at any time. Equipped with intelligent control function, can make an appointment to charge, mobile phone control, charging information, all in the master.

Technical data sheet	
AC input voltage	175 ~ 265Va.c.；220Va.c.（type）
AC input current	47 ~ 63Hz；50Hz（type）
Output power	0-3300W
Output voltage	250 ~ 500Vd.c.
Constant power range	330 ~ 480Vd.c. 300 ~ 480Vd.c.
Output current	0 ~ 10A
Power factor	0.99（额定）
Peak efficiency	94.5%
Access mode	Socket specified in GB/T 1002 (16A for home use)
Intelligent control	One-click start mobile phone small program control, Bluetooth upgrade, intelligent anti-theft, booking charging
Protection design	Over voltage protection, under voltage protection, overload protection, short circuit protection, ground protection, over temperature protection, low temperature protection, lightning protection, input PE wire broken pin alarm (optional)
Communication interface	CAN
Noise	≤60dB（A）
Heat dissipation mode	Independent duct
Degree of protection	IP67
Operating temperature	-30℃~ 50℃
Relative humidity	5% ~ 95%
Body size	L330*W164*H110（mm）
Weight	6.8kg
Line length	1.5 m
Input line length	2.5 m

产品客户展示

PRODUCT CUSTOMER DISPLAY

绿能慧充 GRESGYING
CSG科大智能
联桩
EAST 易事特
智充科技
WANBANG XNY 万帮新能源
GRASEN 嘉盛电源
广汽新能源 GAC NE
HONDA
中国中车 CRRC
北汽集团 BAIC GROUP
小鹏
ABB
TELD 特来电
比亚迪汽车
象前充
吉利汽车 GEELY AUTO
EVOGO
WULING
KEHUA 科华恒盛
红旗 让理想飞扬
Sinexcel 盛弘电气
NISSAN
ENVISION 远景能源
CHERY
TITANS

永贵连接 连接专家
Yonggui Connection Connection Experts