

技术规格书/Technical Specification

A0YG1052手动维护开关连接器

YG1052 Manual Maintenance Switch Connector

产品概述/Product instruction



应用场景/Application

适用于新能源汽车电池系统及充电系统等。
It is applicable to battery systems and charging systems of new energy vehicles, etc.

优势/Advantages

- ✓ YG1052 系列连接器是我司自主开发，具有知识产权的高性能产品，产品带高压互锁功能，主要应用于高电压，大电流主干线的动力电连接，集成熔断器于一体，实现电路的短路保护；
The YG1052 series connector is a high-performance product independently developed by our company with intellectual property rights. The product has a high-voltage interlocking function, primarily used for power connections in high-voltage, high-current main lines to achieve short-circuit protection.
- ✓ 本产品将分断装置和熔断器合二为一，既节省了空间，又方便了设备维护、检修、快速更换熔断器的操作；
This product combines the disconnect device and the fuse into one, which not only saves space but also facilitates equipment maintenance, overhaul, and quick replacement of fuses;
- ✓ 本产品在插头端增加了拔出助力机构，使更换熔断器的操作更轻松、方便；
This product has a pull-out assist mechanism added to the plug end, making fuse replacement easier and more convenient;

订货信息/Ordering information

订货信息（总成）熔断器品牌(友容)/Ordering information (assembly)/Fuse brand (Yourong)						
产品名称/ Product name	YGC1052-EV-P2P-CF125 插头/Plug	YGC1052-EV-P2P-CF160 插头/Plug	YGC1052-EV-P2P-CF200 插头/Plug	YGC1052-EV-P2P-CF250 插头/Plug	YGC1052-EV-P2P-CF315 插头/Plug	YGC1052-EV-P2P-CF350 插头/Plug
产品编号/ Product code	115010021402	115010021403	115010021404	115010021405	115010021406	115010021407
产品名称/ Product name	YGC1052-EV-P2P-CF400 插头/Plug	YGC1052-EV-P2P 插头（短接） Plug (with shorting link)				
产品编号/ Product code	112010102338	115010021401				

熔断器品牌(博钺)/Fuse brand (Boyue)						
产品名称/ Product name	YGC1052-EV- P2P-ASTM200 插头/Plug	YGC1052-EV- P2P-ASTM250 插头/Plug	YGC1052-EV- P2P-ASTM315 插头/Plug	YGC1052-EV- P2P-ASTM350 插头/Plug	YGC1052-EV- P2P-ASTM400 插头/Plug	
产品编号/ Product code	115010021408	115010021409	112010102669	115010021410	115010021411	
对插端名称 Mating connector name	YGC1052-EV- S2RA 插座 (前安装) Receptacle (front - mounted)	YGC1052-EV- S2RB 插座 (后安装) Receptacle(rear -mounted)				
对插端编号 Mating connector code	112020102615	112020102606				

• 技术数据/Technical data

基本信息/Basic in formation	
PIN 距/Pin pitch	34mm
芯数/Numbers of pins	2pin
电气性能/Electrical specification	
额定电压/Rated voltage	750V DC (功率/power) , 24 V DC (信号/signal)
额定电流/Rated current	200A (50mm ²)
绝缘电阻/Insulation resistance	≥3000MΩ(常态/normal), ≥200MΩ(湿热/wet heat)
耐电压/Withstand voltage	3000V (50Hz,AC 常态/normal)
HVIL	是/Yes
机械性能/Mechanical specification	
机械寿命/Life cycle	≥50 次/times
耐环境性能/Environmental resistance specification	
工作温度/Ambient temperature	-40℃ ~ +125℃
相对湿度/Humidity range	95% (40℃时/at 40℃)
盐雾盐雾/Salt spray	96h
防护等级/IP rating	IP67&IP6K9K (插合后/after mating)
材料/涂覆/外观/Materials/Coating/Outline	
壳体/Shell	PA66-GF
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0(塑料/plastic)、HB(橡胶/rubber)

• 产品尺寸图及安装开孔尺寸/Product size & mounting hole dimension

1.插座后安装外观尺寸(安装板厚≤4.5mm)

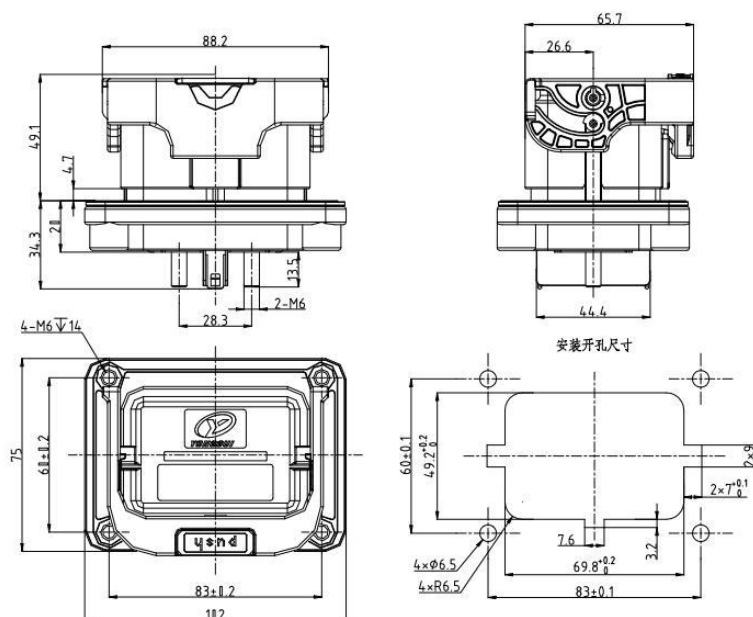
Dimensions of the receptacle rear-mounted(mounting plate thickness ≤ 4.5mm)

安装孔固定扭矩: 5.5N.m±0.5 ;

Mounting hole fixing torque: $5.5\text{Nm} \pm 0.5$

尾部出线处固定扭矩: $6\text{N.m} \pm 0.5$

Rear outlet fixing torque: $6\text{N.m} \pm 0.5$



2. 插座前安装

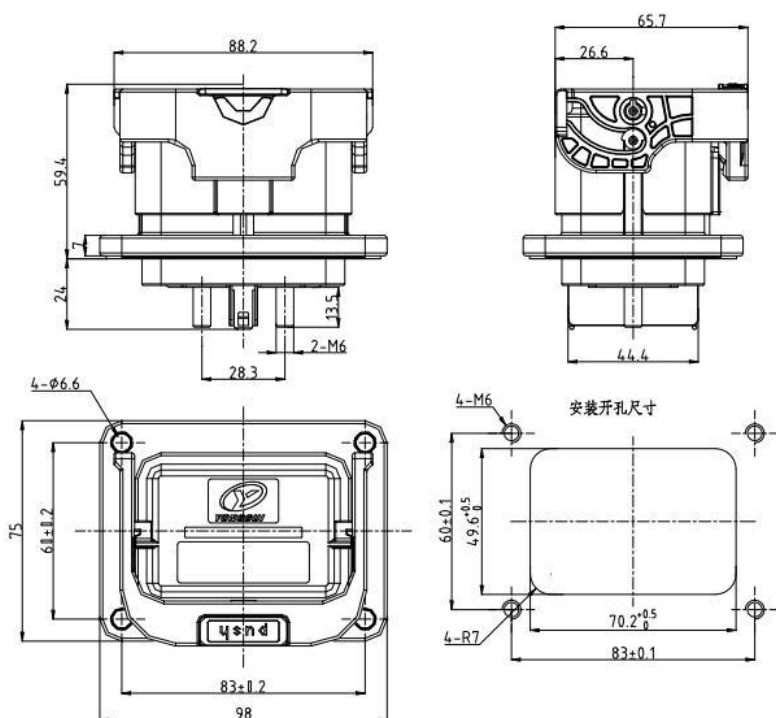
Receptacle front-mounted

安装孔固定扭矩: $5.5\text{N.m} \pm 0.5$

Mounting hole fixing torque: $5.5\text{Nm} \pm 0.5$

尾部出线处固定扭矩: $6\text{N.m} \pm 0.5$

Fixing torque at the rear outlet: $6\text{N.m} \pm 0.5$



• 储存/Storage

包装储存&转运说明/Storage& transportation	
存放要求/ Storage requirement	接触件（镀金、镀银）类零部件必须单独保存，保持整洁、干净、通风。存储环境应控制在湿度$\leq 60\%$、温度在$5\sim 30^{\circ}\text{C}$。参考保存期 6 个月。 Components with contact elements (gold-plated, silver-plated) must be stored separately, kept clean, tidy and in a well-ventilated environment. The storage environment shall be controlled with a humidity of $\leq 60\%$ and a temperature ranging from 5°C to 30°C. The reference storage period is 6 months.
运输要求/ Transportation requirement	端子在包装、运输、转运和生产、装配过程中应避免碰撞、接触腐蚀性气体和液体、以及手直接接触等，以保证端子接触表面良好。 During packaging, transportation, transfer, production, and assembly processes, terminals shall be protected from collisions, contact with corrosive gases and liquids, and direct hand contact, so as to ensure the good condition of the terminal contact surfaces.