

技术规格书/Technical Specification

YG1130手动维护开关连接器

YG1130 Manual Maintenance Switch Connector

• 产品概述/Product instruction

 应用场景/Application 新能源汽车电池系统及充电系统等。 It is applied to battery systems and charging systems of new energy vehicles, etc.	优势/Advantages ✓ 本产品为混合动力及纯电动汽车开发、设计，主要应用于高电压，大电流主干线的动力电连接，实现电路的短路保护； This product is developed and designed for hybrid and pure electric vehicles, 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、检修的操作； This product integrates the disconnection device and fuse into one unit, saving space and facilitating equipment maintenance and servicing. ✓ 本产品在插头端增加了拔出助力机构，操作更轻松、方便； This product incorporates an extraction-assist mechanism on the plug end, making operation easier and more convenient. ✓ 本产品在插孔端采用了双环簧接触对，该结构连接可靠，载流能力强； This product employs a dual-ring spring contact pair on the socket end, offering reliable connection and high current-carrying capacity.
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• 订货信息/Ordering information

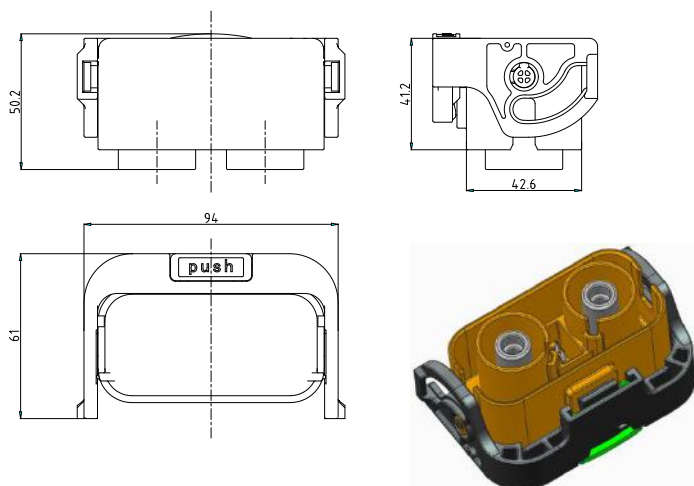
订货信息 (总成) /Ordering information (assembly)						
产品名称/ Product name	YGC1130-EV-P2P 插头 (短接) YGC1130-EV-P2P plug (with shorting link)					
产品编号/ Product code	112010102685					
对插端名称/ Receptacle name	YGC1130-EV-S2R 插座 YGC1130-EV-S2R receptacle					
对插端编号 Receptacle no.	112020102916					

• 技术数据/Technical data

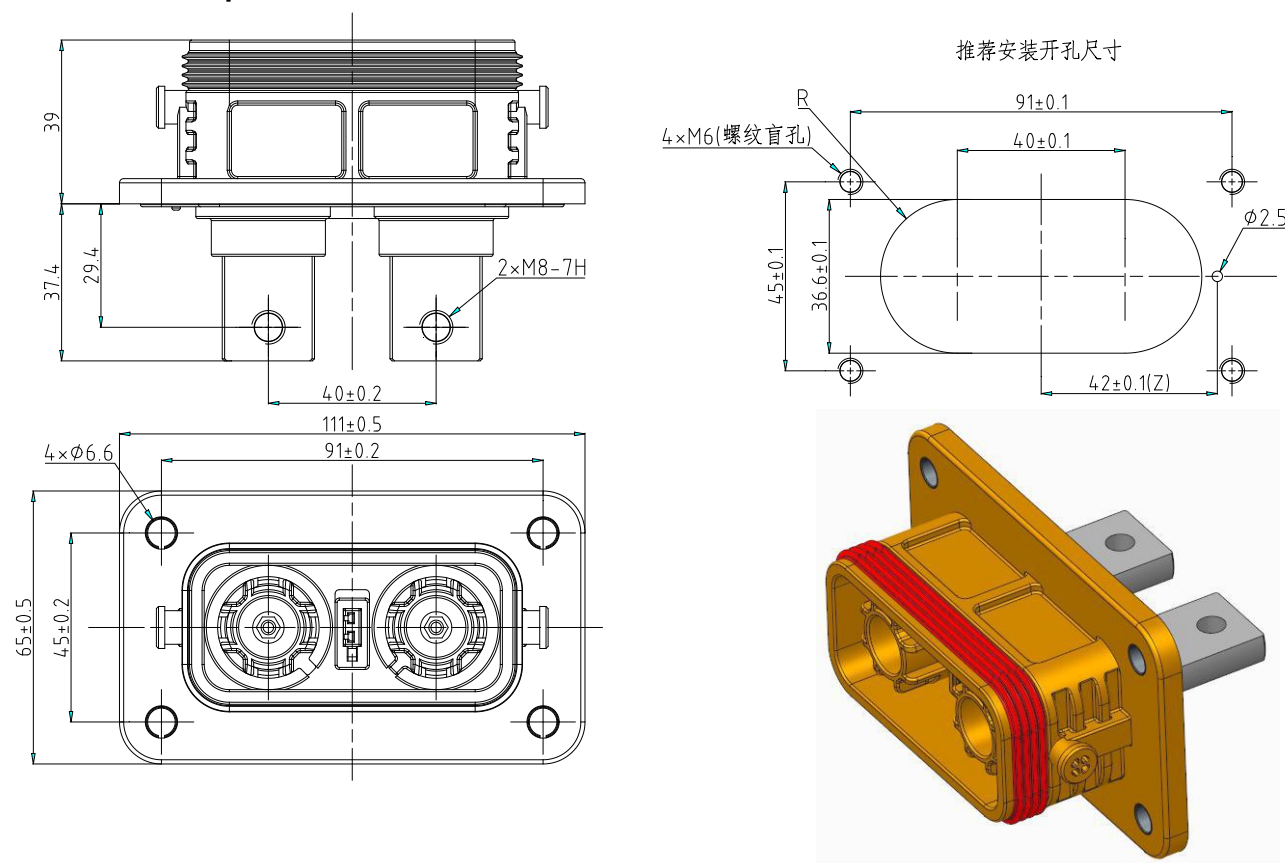
基本信息/Basic information	
PIN 距/Pin pitch	40mm
芯数/Numbers of pins	2pin
壳体材质/Material of shell	塑料/Plastic
电气性能/Electrical specification	
额定电压/Rated voltage	1000V DC (功率) , 24 V DC (信号) 1000V DC (power), 24 V DC (signal)
额定电流/Rated current	400A
绝缘电阻/Insulation resistance	≥5000MΩ(常态), ≥200MΩ(湿热) ≥5000MΩ (normal condition), ≥200MΩ (damp heat condition)
耐电压/Withstand voltage	3000V (50Hz,AC 常态)/ 3000V (50Hz,AC normal condition)
HVIL	是/yes
机械性能/Mechanical specification	
机械寿命/Life cycles	≥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) / 95%(at 40℃)
盐雾/Salt spray	96h
防护等级/IP rating	IP67&IP6K9K (插合后) / IP67&IP6K9K(after mating)
材料/涂覆/外观/Materials/Finish/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)、HB(橡胶)/ UL94 V-0(plastic)、HB(rubber)
环保要求/Environmental requirements	RoHS 2.0

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

1. 插头外形/Plug assembly outline



2. 插座外形/ Receptacle outline



• 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≤60%、温度在5~30℃。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 ≤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.