

技术规格书A1/Technical Specification A1

YG196-510系列三芯弯式接线盒

YG196-510 Series Three-pin 90° Junction Box

• 产品概述/Product instruction



应用场景/Application

适用于电动汽车电机、电控、发电机等的电气连接。
Suitable for electrical connections of electric vehicle motors, electronic controls, generators, etc.

优势/Advantages

- ✓ 防水密封接线盒
Waterproof sealed junction box
- ✓ 安装面防油密封接线盒
Oil-proof sealed junction box for mounting surface
- ✓ 金属外壳，屏蔽结构360°全包围
Housing with 360° fully enclosed shielding structure
- ✓ 适用于焊接线缆
Suitable for welding cables
- ✓ 最大适配线缆70mm²，向下可扩展
Maximum supported cable size: 70 mm² (smaller sizes supported)

• 订货信息/Ordering information

订货信息/Ordering information

产品型号/ Product model	YG196-00-510-00A	YG196-00-510-00B
产品名称/ Product name	YG196-510A 壳体组件 YG196-510A shell assembly	YG196-510B 壳体组件 YG196-510B shell assembly
产品编号/ Product code	112010105328	112010105342

注：散件需单独采购，具体物料信息见订货信息（散件）表。

Note: Components must be purchased separately. For detailed material information, refer to the Ordering Information (components) table.

订货信息（总成）/Ordering information (assembly)	订货信息（零部件明细，可单独采购）/Ordering information (parts details, can be purchased separately)				
	产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示（参考）/ Diagram (for reference)

YG196-510A 壳体组件/ YG196-510A shell assembly	112010105328	YG196-510A 插座组件/ YG196-510A receptacle assembly	113010600775	1	/	
		YG196-510A 防护盖组件/ YG196-510A protective cover assembly	113011600973	1		
		内六角花形盘头螺钉 GB/T 2672 M4×12(含平垫/弹垫)/ Torx pan head screw, GB/T 2672, M4×12 (with flat washer and spring washer)	501010101259	4		
		内六角花形盘头螺钉 GB/T 2672 M6×20(含平垫/弹垫)/ Torx pan head screw GB/T 2672 M6×20 (with flat washer/spring washer)	501010101260	3		
YG196-510B 壳体组件 YG196-510B shell assembly	112010105342	YG196-510B 插座组件/ YG196-510B receptacle assembly	113010600776	1	/	
		YG196-510B 防护盖组件/ YG196-510B protective cover assembly	113011600974	1		
		内六角花形盘头螺钉 GB/T 2672 M4×12(含平垫/弹垫)/ Torx pan head screw GB/T 2672 M4×12 (with flat washer/spring washer)	501010101259	4		
		内六角花形盘头螺钉 GB/T 2672 M6×20(含平垫/弹垫)/ Torx pan head screw GB/T 2672 M6×20 (with flat washer/spring washer)	501010101260	3		

订货信息 (总成) /Ordering information (assembly)		订货信息 (零部件明细, 可单独采购) /Ordering information (parts details, can be purchased separately)				
		产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示 (参考) / Diagram (for reference)
/	/	YG196-510 铜排/ YG196-510 copper busbar	114020200229	3	50mm ² 屏蔽线缆 (φ15.5±0.3) /50mm ² shielded cable (φ15.5±0.3)	
		YG196-510 屏蔽罩-50/ YG196-510 shielding cover-50	114022600394	3		

		YG196-510 屏蔽环-50/ YG196-510 shielding ring-50	114022600395	3		
		YG196-510 封线体组件-50/ YG196-510 cable seal assembly-50	113069800517	3		

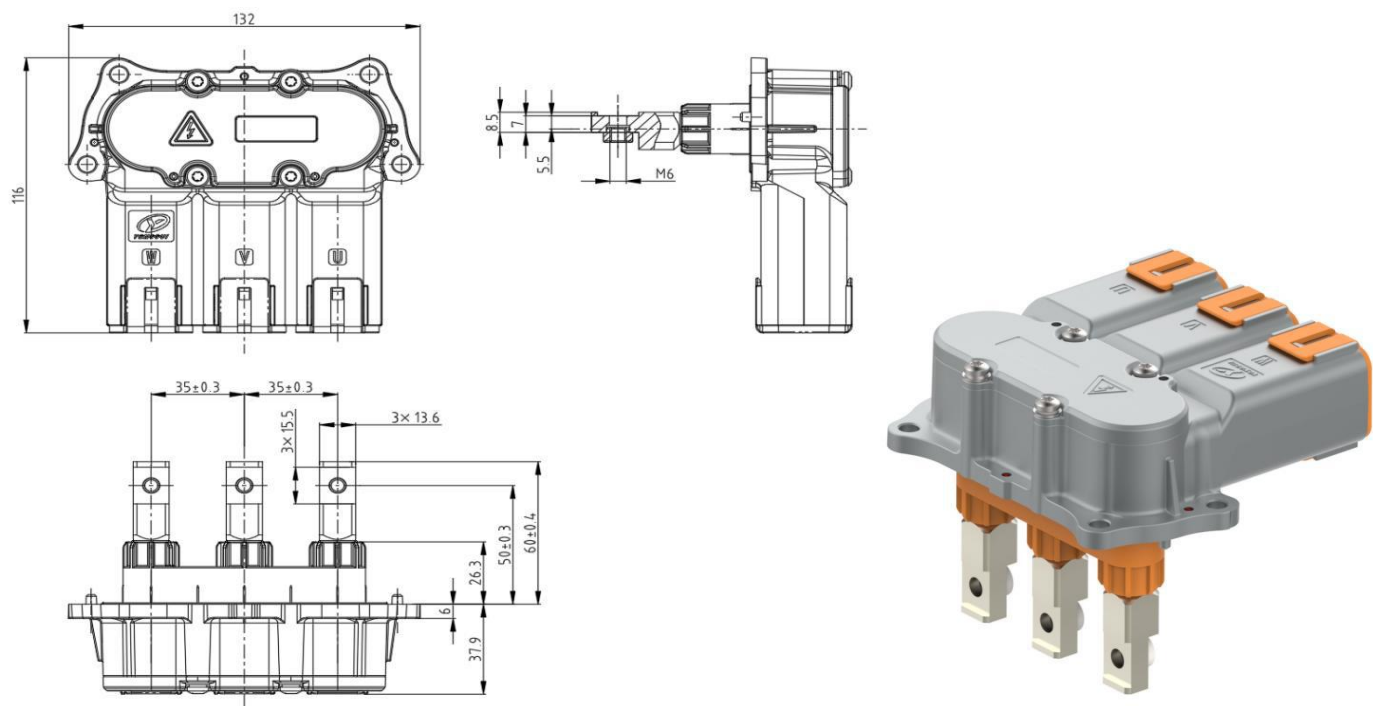
• 技术数据/Technical data

基本信息/Basic information	
PIN 距/PIN pitch	35mm
芯数/Numbers of pins	3pin
出线方向/Cable outlet direction	90°
壳体材质/Shell material	金属/Metal
屏蔽功能/Shielding function	是/Yes
电气性能/Electrical specification	
额定电压/Rated voltage	1000 V DC (功率) /1000 V DC (power)
额定电流/Rated current	250A (50mm ²)
绝缘电阻/Insulation resistance	≥100MΩ
耐电压/Withstand voltage	3000 V AC (功率) /3000 V AC (power)
HVIL	否/No
机械性能/Mechanical specification	
机械寿命/Life cycle	/
振动/Vibration	USCAR V3
冲击/Shock	USCAR V3
耐环境性能/Environmental resistance specification	
工作温度/Ambient temperature	-40°C ~ +140°C
相对湿度/Humidity range	95% (40°C时) /95% (at 40°C)
盐雾/Salt spray	96h
防护等级/IP rating	IP67、IP6K9K
污染等级/Pollution level	2
海拔高度/Altitude	≤5000m
材料/涂覆/外观/Materials/Finish/Outline	
壳体/Shell	压铸铝合金/Die-cast aluminum alloy
屏蔽/Shielding	铜合金/Copper alloy
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/Environment requirements	RoHS 2.0

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

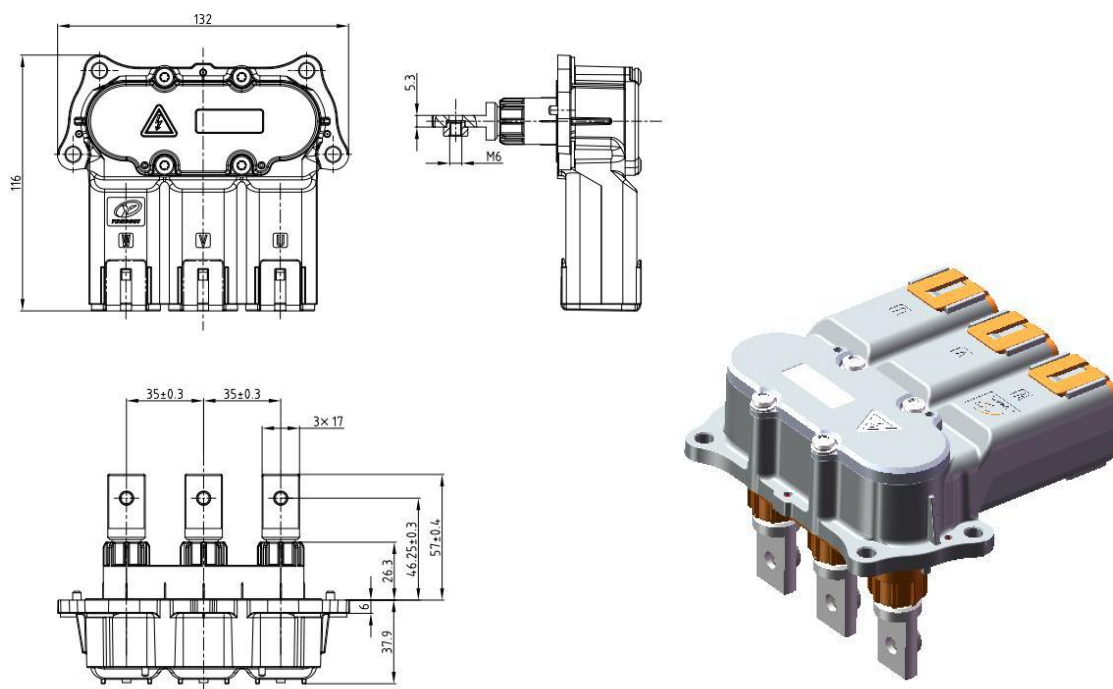
1.YG196-00-510-00A 系列总成外形(未注公差: ±0.5)

YG196-00-510-00A series assembly outline (unspecified tolerance: ±0.5)



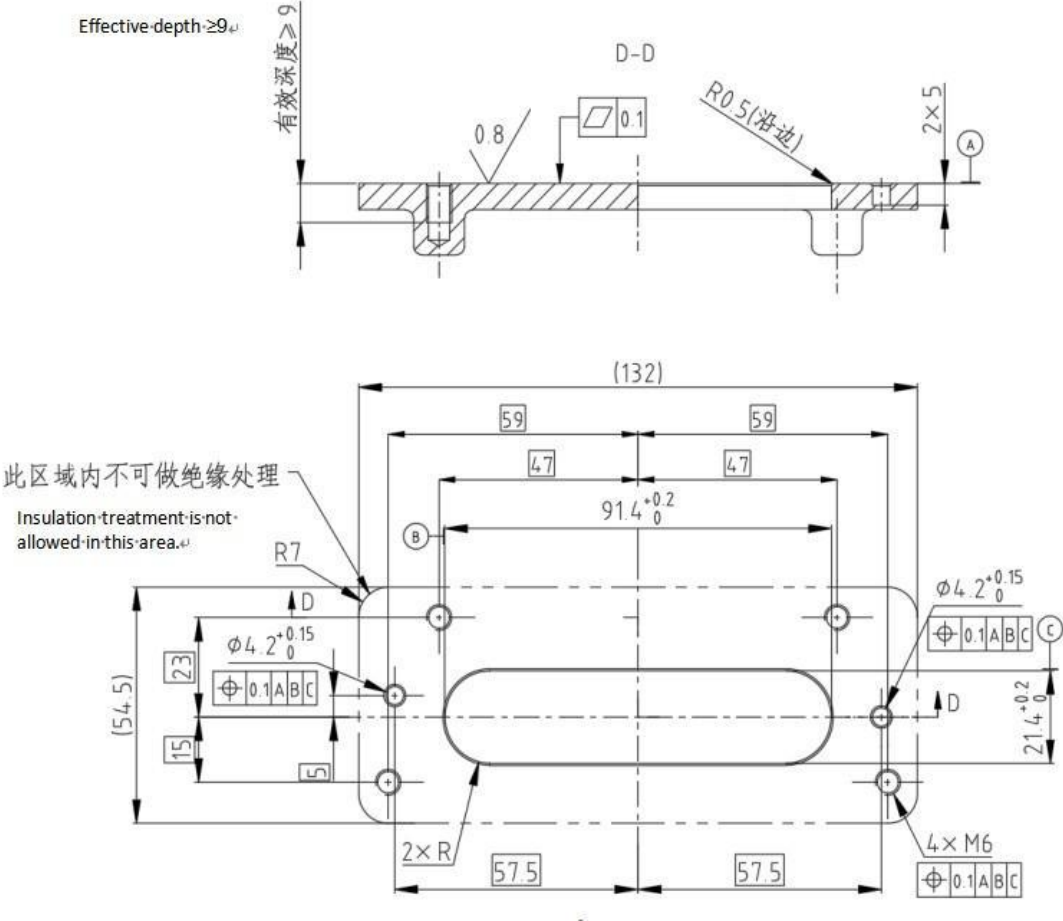
2.YG196-00-510-00B 系列总成外形(未注公差: ± 0.5)

YG196-00-510-00B series assembly outline (unspecified tolerance: ± 0.5)



3.安装开孔尺寸(未注公差: ± 0.1)

Mounting hole dimensions (unspecified tolerance: ± 0.1)



• 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.