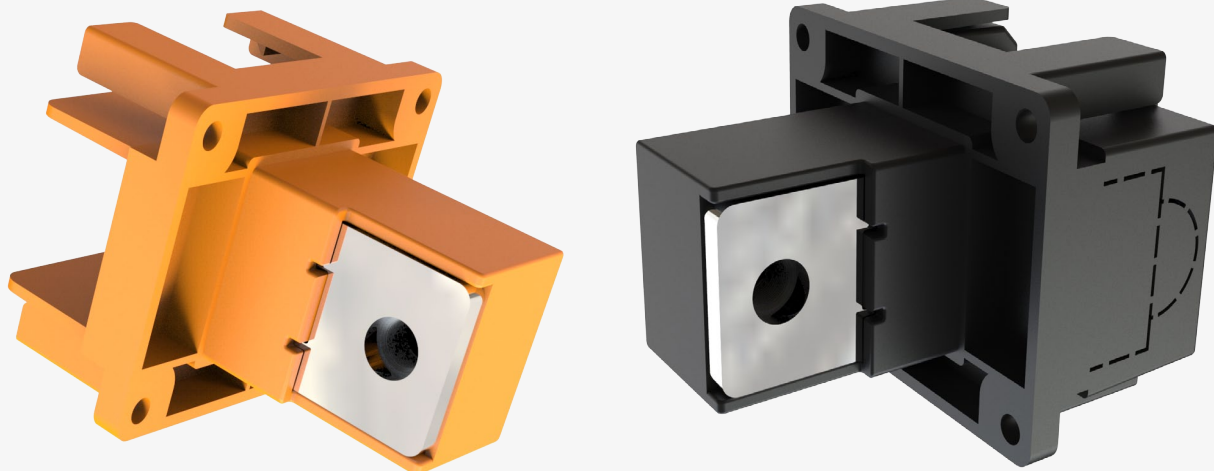


# 产品规格书

## Product Specification



### 350A 铜排式储能连接器

350A copper row type energy storage connector

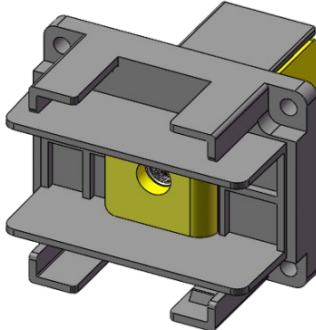
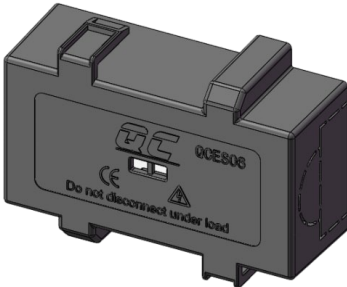
承认签章 (Confirmation)					
快可承认 (QC Solar confirmation)			客户承认 (Customer confirmation)		
批准 Approved by	审核 Audited by	设计 Designed by	采购 Purchased by	品保 Quality Assured by	技术 Technical verified by

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## 1. 产品型号及明细/ Product model and details

产品名称 Product name	产品型号 Product number	产品描述 Product description	颜色 Colour	产品图片 Product Image	螺孔规格 Screw hole specifications
350A 铜排式储能连接器 350A copper row type energy storage connector	QCES06	插座 / Socket	橙色 / 黑色 Orange/ Black		M8
		上盖 / Cover	橙色 / 黑色 Orange/ Black		/

## 2. 产品特性 / Product Features

产品特性 Product Features	
设计依据标准 Design basis standard	IEC61984、PPP51090A、 2PFG 2740/04.20、UL4128
应用 application	电池包、配电箱、逆变器 Battery pack、distribution box、Inverter
额定电流 Rated current	350A
额定电压 Rated voltage	1500V DC
使用温度范围 Operating temperature range	-40°C ~ +85°C

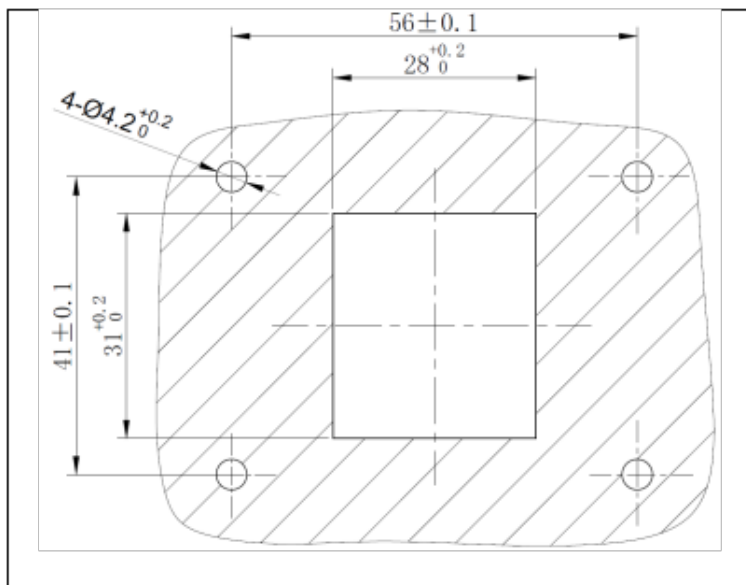
外壳防护等级 Enclosure rating	IP68
绝缘电阻 Insulation resistance	施加 DC1500V 电压, 绝缘电阻 $\geq 500\text{M}\Omega$ Apply DC1500V voltage, insulation resistance $\geq 500\text{M}\Omega$
接触电阻 Contact resistance	$\leq 0.5\text{m}\Omega$
防火等级 Fire-proof level	UL94 V-0
使用寿命 Service life	10-15 年 10-15 years

### 3. 产品规范性能/ Product specification performance

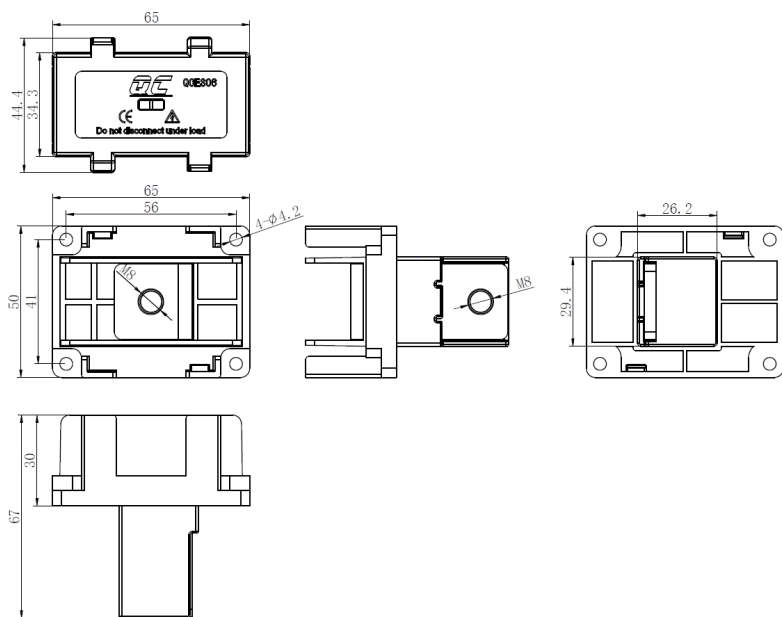
项目	测试条件	测试要求
绝缘电阻 Insulation resistance	外壳绝缘电阻: 串联所有的电路, 用导电薄膜包裹标本的外部, 测试电压 5000V DC, 测试时间 60s( 室温 25°C 状态下 ) Shell insulation resistance: connect all circuits in series, wrap the outside of the specimen with conductive film, test voltage 5000V DC, test time 60s (at room temperature 25°C )	500M $\Omega$ MIN
接触电阻 Contact resistance	试验电压不超过 DC20mV, 电流不超过 100mA Test voltage does not exceed DC20mV, current does not exceed 100mA	接触电阻 $\leq 0.5\text{m}\Omega$ Contact resistance of male and female terminals $\leq 0.5\text{m}\Omega$
绝缘耐压 Insulation withstand voltage	在连接器中所有相邻但不相连通的导体之间以及所有导体与屏蔽层或外壳之间, 施加 DC2500V 和 AC1600V 各 1 分钟 Between all adjacent but not connected conductors in the connector and between all conductors and the shielding layer or shell, apply DC2500V and AC1600V for 1 minute each	漏电流 <10mA, 每个 pin 之间及 pin 与外壳之间无电击穿电弧或闪烁的现象 Leakage current <10mA, no electric arc or flicker between each pin and between the pin and the shell
温升 Temperature rise	额定电流通电, 温度测定 The rated current is energized and the temperature is measured	端子温升不超过 45K Terminal temperature rise does not exceed 45K
耐热性 Heat Resistance	把连接器放入 125 $\pm$ 2°C 温度箱中, 放置 48H, 再回到室温中放置 1-2H Put the connector into a 125 $\pm$ 2°C temperature box, leave it for 48 hours, and then return to room temperature for 1-2 hours	测试后, 样品无损坏, 无开裂, 无性能减弱, 无影响正常使用的问题出现 After the test, the sample has no damage, no cracking, no performance degradation, and no problems that affect normal use
耐寒性 Cold Resistance	把连接器放入 -40 $\pm$ 2°C 温度箱中, 放置 48H, 再回到室温中放置 1-2H Put the connector into a -40 $\pm$ 2°C temperature box, leave it for 48 hours, and then return to room temperature for 1-2 hours	测试后, 样品无损坏, 无开裂, 无性能减弱, 无影响正常使用的问题出现 After the test, the sample has no damage, no cracking, no performance degradation, and no problems that affect normal use

<p>耐湿性 Humidity</p>	<p>40±2°C、相对湿度 90-95% 的空气中；放置 96 小时；再回到室温中 0.5 小时内测定 40±2°C , relative humidity 90-95% in the air; placed for 96 hours; then returned to room temperature within 0.5 hours of measurement</p>	<p>测试后，样品无损坏，无开裂，无性能减弱，无影响正常使用的问题出现 After the test, the sample has no damage, no cracking, no performance degradation, and no problems that affect normal use</p>
<p>冷热循环 Hot and cold cycle</p>	<p>连接器在以下的条件下完成 100 次的循环：-40 ±2°C持续 30min，125±2°C持续 30min，切换时间 30 秒 The mating connector completes 100 cycles under the following conditions:-40 ±2°C for 30min, 125±2°C for 30min, switching time 30 seconds</p>	<p>测试后，样品无损坏，无开裂，无性能减弱，无影响正常使用的问题出现 After the test, the sample has no damage, no cracking, no performance degradation, and no problems that affect normal use</p>
<p>耐振动性 Vibration</p>	<p>DC 1mA 通电状态下；嵌合轴沿 XYZ 三个方向振动；振幅 1.5mm；频率 10-55-10Hz/分；历时 2 小时 Amplitude: 1.5mm P-PSweep time: 10-55-10Hz in 1 minuteDuration: 2 hours in each X.Y.Z. axe</p>	<p>外观无损坏； 接触电阻 ≤ 0.5mΩ； 瞬断时间 ≤ 1ms。 No damage to the appearance; Contact resistance ≤ 0.5mΩ; Instantaneous time ≤ 1ms.</p>
<p>耐冲击性 Shock 冲击性 Shock</p>	<p>DC 1mA 通电状态下；嵌合轴沿相互垂直的 6 个方向；以 490m/s<sup>2</sup>{50G} 冲击；各 3 次 490m/s<sup>2</sup>{50G}，3 strokes in each X.Y.Z. axes。 When DC 1mA is energized; the mating axes are along 6 mutually perpendicular directions; impact at 490m/s<sup>2</sup>{50G}; 3 strokes in each X.Y.Z. axes</p>	<p>外观无损坏； 瞬断时间 ≤ 1ms。 No damage to the appearance; Instantaneous time ≤ 1ms.</p>
<p>扭力测试 Torque test</p>	<p>将连接器固定后，测试螺丝力矩 After fixing the connector, test the screw torque</p>	<p>M8 螺纹孔（粗牙）：12N.M Max M8 threaded hole (coarse thread): 12N.M Max</p>

## 4. 产品图纸/Product drawings



推荐安装开孔尺寸  
socket installation size drawing



外形轮廓尺寸  
socket outline size

## 5. 包装方式/Packing

包装方式规格为长 59\* 宽 39\* 高 17cm 的纸箱  
The packaging specification is a carton with length 59\*width 39\*height 17cm



产品系列 Product Series	插座 (橙色 / 黑色) Socket (orange/black)	上盖 (橙色 / 黑色) Cover (orange/black)
产品图片 Product Image		
参考重量 reference weight	100g	14g

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