

# MC4

## 匹配测试报告

### Compatible Testing Report

测试日期 test date:20220428

测试标准 standard test:  IEC62852

测试产品 test product:

光伏连接器 Photovoltaic connector

产品型号 Product model: mc4

防护等级 Protection class:

IP68

额定电压 Rated voltage(V): 1500V

温度范围 temperature range :

-40°C to +85°C

额定电流 Rated current(A): /

IPX8 测试 IPX8 test

测试方法 testing method:依据标准 According to the standard IEC62852

测试人 Tester: 胡慧芳

日期 date : 2022.4.29

审核 audit: Jason 乐俊

信息记录 information record:

1、 样品生产日期 Sample production date: 20220428

连接器 Connector List :

1.1 MC4 PV Connector ;

1.2 S. MC4;

1.3 EVO2;

1.4 T. TS4;

1.5 Solar T4;

1.6 JK03M

2、 测试项目 Test List

2.1 IP68 (1m,1h) Water Proof Compatible Test IP68 防水匹配测试

2.2 Resistance Compatible Test 电阻匹配测试

2.3 Mechanical Match Compatible Test 机械对插匹配测试

3. 测试结果 Test Results

3.1 IP68 Water Proof Compatible Test 防水匹配测试

结论 conclusion: Pass

#### IP68 Water Proof Compatible Test 防水匹配测试

Compatible Test	Female	S. MC4 Female	S. EVO2 Female	TS4 Female	CSI T4 Female	JK03M Female
Male	Pass	Pass	Pass	Pass	Pass	Pass
S. MC4 Male	Pass	-				
S. EVO2 Male	Pass		-			
TS4 Male	Pass			-		
CSI T4 Male	Pass				-	
JK03M Male	Pass					-

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**3.2 Resistance Compatible Test 电阻匹配测试**

结论 conclusion: **Pass**

Resistance Compatible Test 电阻匹配测试						
Compatible Test / mΩ	Female	S. MC4 Female	EVO2 Female	T. TS4 Female	CSI T4 Female	JK03M Female
Male	<b>0.12</b>	<b>0.10</b>	<b>0.10</b>	<b>0.13</b>	<b>0.13</b>	<b>0.12</b>
MC4 Male	<b>0.10</b>	-				
EVO2 Male	<b>0.10</b>		-			
T. TS4 Male	<b>0.11</b>			-		
CSI T4 Male	<b>0.11</b>				-	
JK03M Male	<b>0.12</b>					-

**3.3 Mechanical Match Compatible Test**

机械结构匹配测试

结论 conclusion: **Pass**

Resistance Compatible Test 电阻匹配测试						
Compatible Test	Female	S. MC4 Female	EVO2 Female	T. TS4 Female	CSI T4 Female	JK03M Female
Male	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
S. MC4 Male	<b>Pass</b>	-				
EVO2 Male	<b>Pass</b>		-			
T. TS4 Male	<b>Pass</b>			-		
CSI T4 Male	<b>Pass</b>				-	
JK03M Male	<b>Pass</b>					-

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## 4 Test Process 匹配测试步骤

### 4.1 IP68 Water Proof Compatible Test Process 防水匹配测试步骤

1. 使用浸水试验装置（深度 1M，1h），通过绝缘电阻测试仪（ $\geq 400M\Omega$ ）测试后，检验产品内腔是否进水；

Use the immersion test device (1m, 1h), through the insulation resistance test ( $\geq 400M\Omega$ ), OK, check whether the product cavity water;



### IPX7 测试 IPX7 test:



PIC 1  
PV TS4 F



PIC 2  
PV TS4 M

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PIC 3  
PV M & CSI T4 F



PIC 4  
PV F & CSI T4 M



图片 5  
PV M & MC4 F



图片 6  
PV F & MC4 M

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图片 7  
PVM & F



图片 8  
F & M



图片 9  
M & EVO2 F



图片 10  
F & EVO2 M

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## 4.2 Resistance Compatible Test 电阻匹配测试



图片 1  
PV 插套 & 插针  
PV socket & pin



图片 2 插针 & 插套  
PV pin & socket



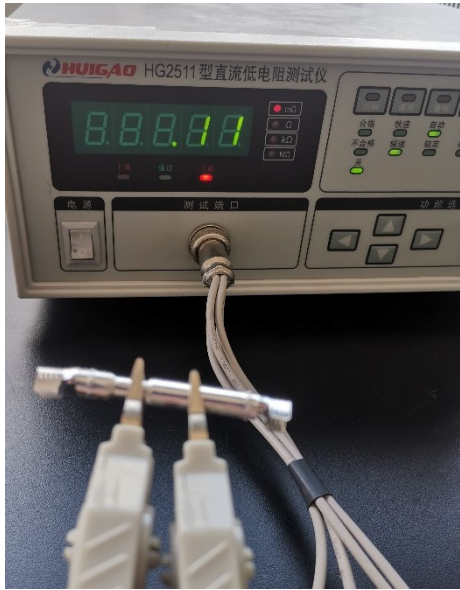
图片 1  
插套 & TS4 插针



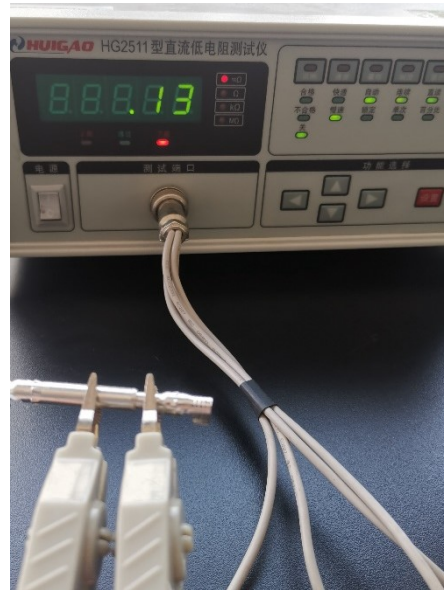
图片 2 插针 & TS4 插套  
pin & TS4 socket

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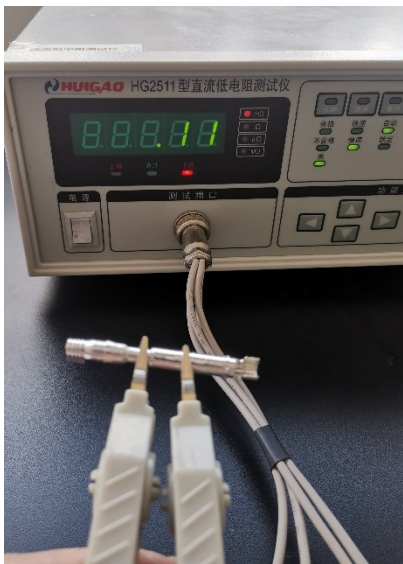
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图片 3  
插套 & T4 插针  
socket & T4 pin



图片 4  
插针 & T4 插套  
pin & T4 socket



图片 5  
插套 & MC4 插针  
socket & MC4 pin



图片 6  
插针 & MC4 插套  
pin & MC4 socket

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图片 7  
插套 & 插针  
socket & pin



图片 8  
插针 & 插套  
pin & socket



图片 9  
插套 & EVO2 插针  
socket & EVO2 pin



图片 10  
插针 & EVO2 插套  
pin & EVO2 socket

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4.3 Mechanical Match Compatible Test

机械结构匹配测试



图片 1  
M & TS4 F



图片 2  
F & TS4 M



图片 3  
M & T4 F



图片 4  
F & T4 M



图片 5  
M & MC4 F



图片 6  
F & MC4 M

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图片 7  
M & F



图片 8  
F & M



图片 9  
M & EVO2 F



图片 10  
F & EVO2 M

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