

PV-SY02(55A) 连接器
PV-SY02 (55A) Connector



正极头 / Positive Electrode



负极头 / Negative Electrode

特性 / Properties:

- 安全可靠，安装便捷，外形简洁无缺陷。
Safe, Reliable, Easy to assembly, Simple and high quality.
- 防紫外线辐射，防酸碱腐蚀，防恶劣天气。
UV-resistant, Acid and alkali-resistant, Weather-resistant.
- 高级别防尘，防水及防火保护。
High level of dust protection, Waterproof and fireproof.

技术指标
Technical Index

连接器规格 / Connector Specification:

连接器尺寸 (长 * 宽) $\Phi 19.8\text{mm} \times 76\text{mm}$ F
Connector Dimensions (H*W) $\Phi 19.8\text{mm} \times 71\text{mm}$ M

总质量 (含接线端子) 30 g
Total Weight
(Including Terminal Blocks)

认证资质标志 TÜV / CSA
Product Certification And
Certification Marks

预接电缆线横截面 $2.5\text{mm}^2/14\text{AWG}$; $4\text{mm}^2 / 12\text{AWG}$;
Cross section of pre connected cable $6\text{mm}^2/10\text{AWG}$

塑壳材质 (RTI) PC 115
Plug Housing Material (RTI)

导电端子材质 铜 / Copper
Receptacle Contact Material

阻燃等级 UL94-V0
Flame Retardant Grade

保护等级 IP68
Protection Degree

使用温度范围 $-40^\circ\text{C} \sim 85^\circ\text{C}$
Temperature Range

插拔力参数

Insertion and Withdrawal Information:

电缆接头旋开扭矩 $\geq 1.2 \text{ N.m}$
Loosening Torque

4mm²电缆线接头铆紧后拔开力 $\geq 310 \text{ N}$
Pulling Force of 4mm² Cable Connector
After Riveting

6mm² 电缆线接头铆紧后拔开力 $\geq 355 \text{ N}$
Pulling Force of 6mm² Cable Connector
After Riveting

连接器对接时插入力 $20\text{N} < F < 80\text{N}$
Insertion Force

连接器对接后拔开力 (自锁状态) $\geq 100 \text{ N}$
Withdrawal Force(Auto Lock Status)

连接器性能 / Connector Performance:

系统电压 1500 V DC

Max.System Voltage

额定脉冲电压 16000 V

Rated Impulse Voltage

额定绝缘电压 8000 V

Rated Insulation Voltage

额定电流 55 A

Rated Current

UL: 55A on 8AWG cable, 40A on 10AWG cable
30A on 12AWG cable
IEC: 55A on 6mm² cable
48A on 4mm² cable

静态电阻 $\leq 5 \text{ m}\Omega$

Static Resistance

带电导体耐电压 1.8 KV / 1mA / 1 min

Live Conductor

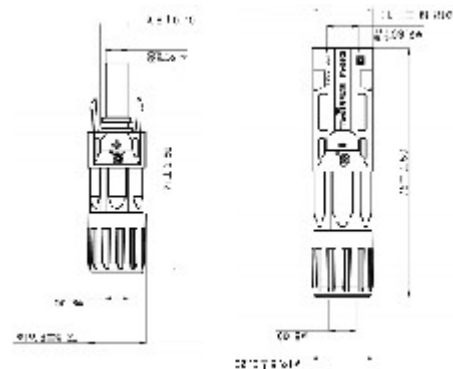
Voltage Withstand

湿漏电流 $< 10 \text{ uA}$

Wet Leakage Current

连接器正负极接触电阻 $< 0.45 \text{ m}\Omega$

Contact Resistance



PV-SY02(30A) 连接器 - 新外壳

PV-SY02 (30A) Connector - NEW SHAPE



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特性 / Properties:

- 安全可靠，安装便捷，外形简洁无缺陷。
Safe, Reliable, Easy to assembly, Simple and high quality.
- 防紫外线辐射，防酸碱腐蚀，防恶劣天气。
UV-resistant, Acid and alkali-resistant, Weather-resistant.
- 高级别防尘，防水及防火保护。
High level of dust protection, Waterproof and fireproof.

技术指标
Technical Index

连接器规格 / Connector Specification:

连接器尺寸 (长 * 宽)	Φ19.8mm x 61mm F
Connector Dimensions (H*W)	Φ19.8mm x 63mm M
总质量 (含接线端子)	20.2 g
Total Weight (Including Terminal Blocks)	
认证资质标志	TÜV / CSA
Product Certification And Certification Marks	
预接电缆线直径	2.5mm ² /14AWG; 4mm ² / 12AWG ;
Preconnect Cable Diameter	6mm ² /10AWG
塑壳材质 (RTI)	PC (115°)
Plug Housing Material (RTI)	
导电端子材质	铜 / Copper
Receptacle Contact Material	
阻燃等级	UL94-VO
Flame Retardant Grade	
保护等级	IP68
Protection Degree	
使用温度范围	-40°C ~ 85°C
Temperature Range	

连接器性能 / Connector Performance:

系统电压	1500 V DC
Max.SystemVoltage	
额定脉冲电压	16000 V
Rated ImpulseVoltage	
额定绝缘电压	8000 V
Rated InsulationVoltage	
额定电流	30 A (4 mm ² / 12AWG)
Rated Current	
静态电阻	≤ 5 mΩ
Static Resistance	
带电导体耐电压	1.8 KV / 1mA / 1 min
Live Conductor Voltage Withstand	
湿漏电流	< 10 uA
Wet Leakage Current	
连接器正负极接触电阻	< 0.35 mΩ
Contact Resistance	

插拔力参数

Insertion and Withdrawal Information:

电缆接头旋开扭矩	≥ 1.5 N.m
Loosening Torque	
4mm ² 电缆线接头铆紧后拔开力	≥ 310 N
Withdrawal Force After Connect With 4mm ² Cable Line	
连接器对接时插入力	20N < F < 150N
Insertion Force	
连接器对接后拔开力 (自锁状态)	≥ 100 N
Withdrawal Force(Auto Lock Status)	

