

ATP 光伏电源系列连接器

ATP Solar Motion Series connector

ATP Solar Motion系列连接器是一款3pin电源连接器，额定电压/电流450V/23A。

该系列连接器具有以下优点：

- 1)推入即锁住，定位精准，高效便捷；
- 2)压接端子、省时省力；
- 3)注塑成型结构，防水性能更优；
- 4)具有抗紫外线以及抗老化的性能。

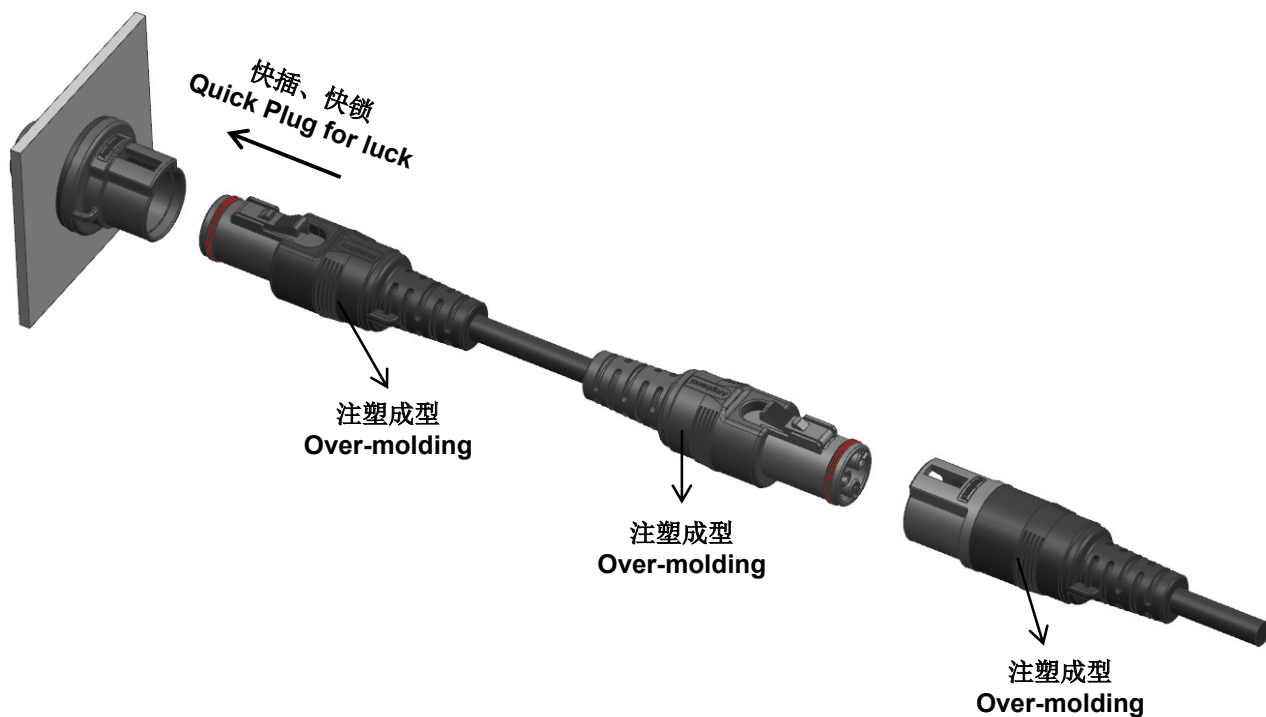
基于上述优点，该系列连接器广泛应用于太阳能、光伏等恶劣的户外场合。

The ATP Solar Motion series is a 3POS power connectors with rated voltage 450V and rated current 23 A.

Advantages of ATP Solar Motion series connectors:

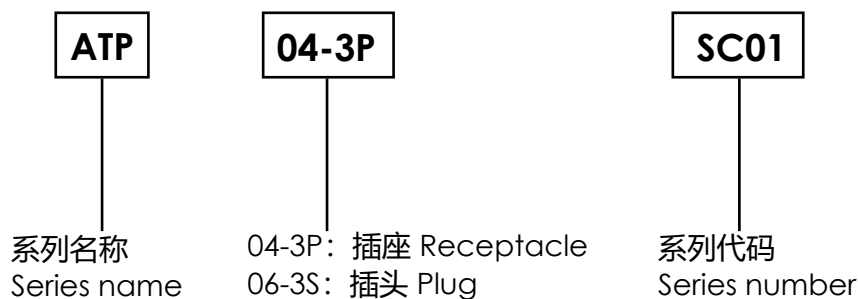
- 1)Effectively, efficiently and precisely pushing for lock;
- 2)Crimping contacts for high working efficiency;
- 3)Over-molding structure for better water proof;
- 4)With personalities of anti-UV and anti-aging.

Based on above Advantages, this series connector could be applied to harsh outdoor fields, such as solar energy、 photovoltaic power, etc.



ATP 光伏电源系列连接器 - 料号编码

ATP Solar Motion Series - Part number sequence



产品性能

Properties of products

温度范围 Temperature Range	-40°C ~ +105°C
浸水密封性 Submersion	IP67/IP65
额定工作电压 Rating Voltage	450V
额定工作电流 Rating Current	23A
耐受电压 Voltage Proof	4000V
接触电阻 Contact Resistance	≤5 mΩ
绝缘电阻 Insulation Resistance	≥ 10 ⁸ Ω
机械寿命 Minimum Mating Cycles	装拆不小于100次, 没有电气或机械上的缺陷。 No electrical or mechanical defects after more than 100 cycles of engagement and disengagement.
端子插拔寿命 Contact mating Cycles	镀金至少1000次、镀银至少200次 At least 1000 times for gold plating and 200 times for silver plating
振动测试 Vibration	在三个相互垂直的平面内, 以50~2000Hz, 20G加速度的正弦振动后, 没有锁扣松脱, 没有机械或物理的损坏, 没有大于1微秒的断电现象。 No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 50 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.
温湿度循环 Temperature/Humidity Cycling(8 times 8次循环)	在温度+23°C, 湿度45%下放置2小时. Hold at +23°C at 45% RH for 2 Hours. 在0.5小时内升到温度+55°C, 湿度95%. Raise to +55°C at 95% RH within 0.5 Hours. 在温度+55°C, 湿度95%下放置4小时. Hold at +55°C at 95% RH for 4 Hours. 在2.5小时内降到温度-40°C. Lower to -40°C within 2.5 Hours. 在温度-40°C下放置2小时. Hold at -40°C for 2 Hours. 在1.5小时内升到温度+105°C. Raise to +105°C within 1.5 Hours. 在温度+105°C下放置2小时. Hold at +105°C for 2 Hours.
RoHS Compliant	Yes
材料 Material	壳体 (Shell) : 热塑性材料 thermoplastic 密封件(Seals): 硅橡胶材料 silicone elastomer 端子(Contacts): 铜合金、镀金、镀银 Copper alloy、gold plated、silver plated

ATP 光伏电源系列 3孔连接器-压接

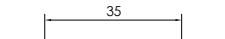
ATP Solar Motion Series 3POS connectors-Crimp

插座料号 Receptacle P/N	尺寸图 Detailed Dimension	开孔图 Panel Dimension	产品图 Product picture
ATP04-3P-SC01			
ATP04-3P-SC02			
ATP04-3P-SC03			
ATP04-3P-SC04			
ATP04-3P-SC05			

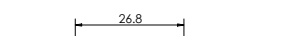
ATP Solar Motion Series 3POS connectors--Solder

插座料号 Receptacle P/N	尺寸图 Detailed Dimension	开孔图 Panel Dimension	产品图 Product picture
ATP04-3P-SC06			
ATP04-3P-SC07			
ATP04-3P-SC08			
ATP04-3P-SC09			
ATP04-3P-SC10			

ATP Solar Motion Series 3POS connectors

插头料号 Plug P/N	尺寸图 Detailed Dimension	开孔图 Panel Dimension	产品图 Product picture
ATP06-3S-SC01		/	

Optional accessories-Protective cap

插座料号 Receptacle P/N	尺寸图 Detailed Dimension	产品图 Product picture	插头料号 Plug P/N	尺寸图 Detailed Dimension	产品图 Product picture
ATP04-3P-CAP			ATP06-3S-CAP		

可选端子

Contacts

公针

Male contacts

线径 Wire Diameter	线规 Wire Range	供货方式 Supplied as	包装数量 Package QTY	端子料号-镀银 Contacts P/N-Ag	端子料号-镀金 Contacts P/N-Au
φ1.8-2.8mm	0.5 – 1.5mm ² 20 – 16 AWG	单触针 Single contact	100	VN 01 025 0001(101)	VN 01 025 0001(102)
		卷装触针 Contact on reel	200	ZN 01 025 0001(1)	ZN 01 025 0001(2)
		右 Right	2000	HN 01 025 0001(1)	HN 01 025 0001(2)
		左 Left	2000	TN 01 025 0001(1)	TN 01 025 0001(2)
φ2.5-3.5mm	1.5 - 2.5mm ² 16 – 14 AWG	单触针 Single contact	100	VN 01 025 0010(101)	VN 01 025 0010(102)
		卷装触针 Contact on reel	200	ZN 01 025 0010(1)	ZN 01 025 0010(2)
		右 Right	2000	HN 01 025 0010(1)	HN 01 025 0010(2)
		左 Left	2000	TN 01 025 0010(1)	TN 01 025 0010(2)
φ3.3-4.2mm	2.5 – 4mm ² 14 – 12 AWG	单触针 Single contact	100	VN 01 025 0043(1)	/
		卷装触针 Contact on reel	200	ZN 01 025 0043(1)	/
		右 Right	2000	HN 01 025 0043(1)	/
		左 Left	2000	TN 01 025 0043(1)	/

可选端子

Contacts

母针

Male contacts

线径 Wire Diameter	线规 Wire Range	供货方式 Supplied as	包装数量 package QTY	端子料号-镀银 Contacts P/N-Ag	端子料号-镀金 Contacts P/N-Au
φ1.8-2.8mm	0.5 – 1.5mm ² 20 – 16 AWG	单触针 Single contact	100	VN 02 025 0001(101)	VN 02 025 0001(102)
		卷装触针 Contact on reel	200	ZN 02 025 0001(1)	ZN 02 025 0001(2)
		右 Right	2000	HN 02 025 0001(1)	HN 02 025 0001(2)
		左 Left	2000	TN 02 025 0001(1)	TN 02 025 0001(2)
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		左 Left	2000	TN 02 025 0010(1)	TN 02 025 0010(2)
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		右 Right	2000	HN 02 025 0043(1)	/
		左 Left	2000	TN 02 025 0043(1)	/