

SOLARLOK PV4-S CONNECTOR 1500V DC

The SOLARLOK PV4-S connector is an upgrade of the industry leading SOLARLOK PV4 connector to meet a minimum 1500V rating with IP68 protection. The SOLARLOK PV4-S connector has been tested to assure reliable, and safe connections of solar arrays. The connectors use industry standard crimp tooling that is readily available and used by installers today.



Applications

- Solar panels
- Inverters
- Micro inverters
- DC optimizers

Electrical

- UL 15 A and TÜV 30 A: 2.5 mm² / 14 AWG
- UL 20 A and TÜV 40 A: 4.0 mm² / 12 AWG
- UL 30 A and TÜV 45 A: 6.0 mm² / 10 AWG (at 85 °C)
- Rated Voltage: 1000V DC / 1500V DC (UL)
1000V DC / 1500V DC (TUV)
- Contact Resistance: 0.35mΩ

Mechanical

- 63mm x 24.5mm (Male)
- 59.5mm x 18.7mm (Female)
- Protection Degree: IP68 (1m/24 hours)

Specifications

- Product Specification: 108-137077
- Application Specification: 114-137077
- PV4-PV4-S Intermateability: 501-137294
- Packaging specification: 107-137077
- Qualification Test Report: 501-137077

Materials

- Housing: PPE
- Contact: Tinned copper

Standards

- 1000V DC / 1500V DC UL approved - UL6703
- 1000V DC / 1500V DC TUV approved - IEC 62852
- 1000V DC / 1500V DC JET pending

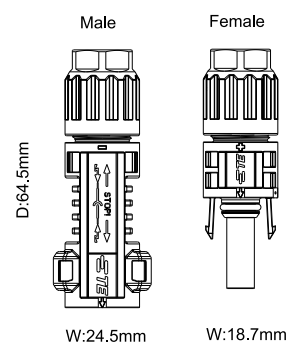
Benefits

- Low contact resistance for less power lost
- Water proof protection
- Exceed 3 times the IEC standard aging tests
- Use 100% virgin raw material (no recycle)

Product Selection Information

Part Number	Description
2270024-1	Pin connector
2270025-1	Socket connector

Dimensions



Product Selection Information

PV4-S Kits for 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	2270024-1	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	2270025-1	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	1-2270024-1	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	2,000 PIECES
STANDARD	1-2270025-1	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	2,000 PIECES
STANDARD	2-2270024-1	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	2-2270025-1	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

PV4-S Kits for 2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	2270024-3	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	2270025-3	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	1-2270024-3	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	2,000 PIECES
STANDARD	1-2270025-3	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	2,000 PIECES
STANDARD	2-2270024-3	PV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	2-2270025-3	PV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

PV4-S - Housing Components

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	2270022-1	PV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
PREFERRED CHOICE	2270023-1	PV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	1,000 PIECES
STANDARD	2-2270022-1	PV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	100 PIECES
STANDARD	2-2270023-1	PV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	100 PIECES

PV4-S - 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	2270251-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	2270251-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270251-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	2270226-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	2270226-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270226-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

PV4-S -2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	2270253-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	2270253-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270253-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	2270252-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	2270252-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270252-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

PV4-S series are applicable for outer-cable diameters from 5.5 mm to 7.8 mm

Accessories



Plastic tool for disconnect PV4
PN [1971903-1](#)



Plastic tool for disconnect PV4 & PM style
PN [2232232-1](#)



Hand Crimping Tool 4.0 mm - 6.0 mm²
PN [6-1579014-8](#)
Hand Crimping Tool 2.5 mm - 4.0 mm²
PN [6-1579014-9](#)



Cable Stripper
PN [4-1579002-2](#)



Dust Cap for Male housing
PN [2232228-1](#)



Dust Cap for Female housing
PN [2232227-1](#)

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SOLARLOK PV4-PM CONNECTOR 1000V DC

The SOLARLOK PV4-PM connector for panel mount application is designed to reach 1000V and have the most reliable power connection. With a precision engineered design, it provides a stable power connection and helps achieve the lowest contact resistance to reduce the cost of power.



Applications

- Solar Inverter
- Combiner box
- Micro inverters
- DC Optimizers

Electrical

- UL 15 A and TÜV 25 A: 2.5mm² / 14 AWG
- UL 20 A and TÜV 35 A: 4.0mm² / 12 AWG
- UL 30A and TUV 40A: 6.0mm² / 10 AWG (at 85 °C)
- Rated Voltage: 1000V (UL)
1000V (TUV)
- Contact Resistance: 0.35mΩ

Mechanical

- 47.9mm x 18.7mm (Male)
- 54.1mm x 24.5mm (Female)
- Protection Degree: IP68 (1m/24 hours)

Specifications

- Product Specification: 108-106122
- Application Specification: 114-106122
- PV4-PV4-S Intermateability: 501-137294
- Packaging specification: 107-106122
- Qualification Test Report: 501-106122

Materials

- Housing: PC
- Contact: Tinned copper

Standards

- 1000V DC / DC UL - UL6703
- 1000V DC / DC TUV - IEC 62852

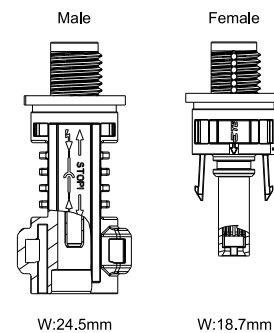
Benefits

- Reliable connector system for solar application
- Precision contact structure enhanced less power lost
- IP68 water proof protection
- Premium material for a long product life

Product Selection Information

Part Number	Description
1971919-1	Pin connector
1971920-1	Socket connector

Dimensions



Product Selection Information

PV4-PM Kits for 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	1971919-1	PV4-PM CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	1971920-1	PV4-PM CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	1971919-2	PV4-PM CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	1971920-2	PV4-PM CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

PV4-PM Kits for 2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Quantity
STANDARD	1-1971919-1	PV4-PM CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
STANDARD	1-1971920-1	PV4-PM CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	1-1971919-2	PV4-PM CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	1-1971920-2	PV4-PM CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

PV4-PM – Housing Components

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	2270039-1	PV4-PM CONNECTOR-HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
PREFERRED CHOICE	2270040-1	PV4-PM CONNECTOR-HOUSING SOCKET-FEMALE (without socket-contact)	1,000 PIECES
STANDARD	2270039-2	PV4-PM CONNECTOR-HOUSING PIN-MALE (without pin-contact)	100 PIECES
STANDARD	2270040-2	PV4-PM CONNECTOR-HOUSING SOCKET-FEMALE (without socket-contact)	100 PIECES

PV4-S – 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	2270251-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	2270251-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270251-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	2270226-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	2270226-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270226-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

PV4-S -2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	2270253-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	2270253-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270253-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	2270252-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	2270252-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	2270252-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

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Cable Stripper
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Dust Cap for Male housing
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Dust Cap for Female housing
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