

# 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 mm<sup>2</sup> / 14 AWG (at 85 °C)
- UL 20 A and TÜV 40 A: 4.0 mm<sup>2</sup> / 12 AWG (at 85 °C)
- UL 30 A and TÜV 45 A: 6.0 mm<sup>2</sup> / 10 AWG (at 85 °C)
- Rated Voltage: 1000V DC / 1500V DC (UL)  
1000V DC / 1500V DC (TUV/IEC)
- 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](#)

## Materials

- Housing: PPE & PS
- Contact: Tinned copper

## Standards

- 1000V DC / 1500V DC UL approved - UL6703
- 1000V DC / 1500V DC TUV approved - IEC62852

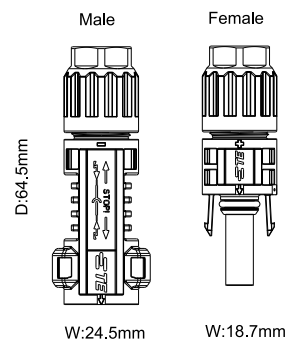
## Benefits

- Provides waterproof protection and is rated IP68 (1 m / 24 hours)
- Minimizes power loss by providing low contact resistance

## Product Selection Information

Part Number	Description
<a href="#">2270024-1</a>	PIN CONNECTOR
<a href="#">2270025-1</a>	SOCKET CONNECTOR

## Dimensions



## SOLARLOK PV4-S CONNECTOR 1500V DC

### Product Selection Information

#### PV4-S Kits for 4 mm<sup>2</sup> - 6 mm<sup>2</sup> Contacts (AWG 12-10)

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

#### PV4-S Kits for 2.5 mm<sup>2</sup> Contacts (AWG 14)

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

#### PV4-S - Housing Components

Type	Part Number	Description	Package Quantity
STANDARD	<a href="#">2270022-1</a>	PV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
STANDARD	<a href="#">2270023-1</a>	PV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	1,000 PIECES
STANDARD	<a href="#">2-2270022-1</a>	PV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	100 PIECES
STANDARD	<a href="#">2-2270023-1</a>	PV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	100 PIECES

#### PV4-S - 4 mm<sup>2</sup> - 6 mm<sup>2</sup> Contacts (AWG 12-10)

Type	Part Number	Description	Package Type - Quantity
STANDARD	<a href="#">2270251-2</a>	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	<a href="#">2270251-3</a>	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270251-4</a>	PIN-MALE CONTACT	100 LOOSE PIECES
STANDARD	<a href="#">2270226-2</a>	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	<a href="#">2270226-3</a>	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270226-4</a>	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

#### PV4-S -2.5 mm<sup>2</sup> Contacts (AWG 14)

Type	Part Number	Description	Package Type - Quantity
STANDARD	<a href="#">2270253-2</a>	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	<a href="#">2270253-3</a>	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270253-4</a>	PIN-MALE CONTACT	100 LOOSE PIECES
STANDARD	<a href="#">2270252-2</a>	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	<a href="#">2270252-3</a>	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270252-4</a>	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 mm<sup>2</sup>  
PN [6-1579014-8](#)  
  
Hand Crimping Tool  
2.5 mm - 4.0 mm<sup>2</sup>  
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](#)

# SOLARLOK PV4-PM CONNECTOR 1000V DC

The SOLARLOK PV4-PM connector for panel mount application is designed to reach 1000V and provide a 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 inverters
- Combiner box
- Micro inverters
- DC optimizers

## Electrical

- UL 15 A and TÜV 25 A: 2.5mm<sup>2</sup> / 14 AWG (at 85°C)
- UL 20 A and TÜV 35 A: 4.0mm<sup>2</sup> / 12 AWG (at 85°C)
- UL 30A and TUV 40A: 6.0mm<sup>2</sup> / 10 AWG (at 85°C)
- Rated Voltage: 1000V (UL)  
1000V (TUV/IEC)
- 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](#)

## Materials

- Housing: PC
- Contact: Tinned copper

## Standards

- 1000V DC / DC UL - UL6703
- 1000V DC / DC TUV - IEC62852

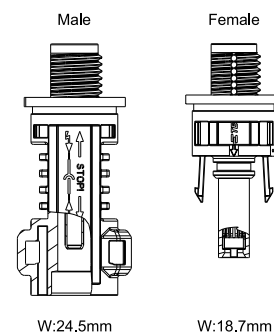
## Benefits

- Precision contact structure helps to minimize power loss
- Provides waterproof protection and is rated IP68 (1 m / 24 hours)

## Product Selection Information

Part Number	Description
<a href="#">1971919-1</a>	PIN CONNECTOR
<a href="#">1971920-1</a>	SOCKET CONNECTOR

## Dimensions



## SOLARLOK PV4-PM CONNECTOR 1500V DC

### Product Selection Information

#### PV4-PM Kits for 4 mm<sup>2</sup> - 6 mm<sup>2</sup> Contacts (AWG 12-10)

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

#### PV4-PM Kits for 2.5 mm<sup>2</sup> Contacts (AWG 14)

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

#### PV4-PM - Housing Components

Type	Part Number	Description	Package Quantity
STANDARD	<a href="#">2270039-1</a>	PV4-PM CONNECTOR-HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
STANDARD	<a href="#">2270040-1</a>	PV4-PM CONNECTOR-HOUSING SOCKET-FEMALE (without socket-contact)	1,000 PIECES
STANDARD	<a href="#">2270039-2</a>	PV4-PM CONNECTOR-HOUSING PIN-MALE (without pin-contact)	100 PIECES
STANDARD	<a href="#">2270040-2</a>	PV4-PM CONNECTOR-HOUSING SOCKET-FEMALE (without socket-contact)	100 PIECES

#### PV4-S - 4 mm<sup>2</sup> - 6 mm<sup>2</sup> Contacts (AWG 12-10)

Type	Part Number	Description	Package Type - Quantity
STANDARD	<a href="#">2270251-2</a>	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	<a href="#">2270251-3</a>	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270251-4</a>	PIN-MALE CONTACT	100 LOOSE PIECES
STANDARD	<a href="#">2270226-2</a>	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	<a href="#">2270226-3</a>	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270226-4</a>	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

#### PV4-S -2.5 mm<sup>2</sup> Contacts (AWG 14)

Type	Part Number	Description	Package Type - Quantity
STANDARD	<a href="#">2270253-2</a>	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	<a href="#">2270253-3</a>	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270253-4</a>	PIN-MALE CONTACT	100 LOOSE PIECES
STANDARD	<a href="#">2270252-2</a>	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	<a href="#">2270252-3</a>	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	<a href="#">2270252-4</a>	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 mm<sup>2</sup>  
PN [6-1579014-8](#)  
Hand Crimping Tool  
2.5 mm - 4.0 mm<sup>2</sup>  
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](#)