

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: 2.5mm² / 14 AWG (at 85°C)
- UL 20 A and TÜV 35 A: 4.0mm² / 12 AWG (at 85°C)
- UL 30A and TUV 40A: 6.0mm² / 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

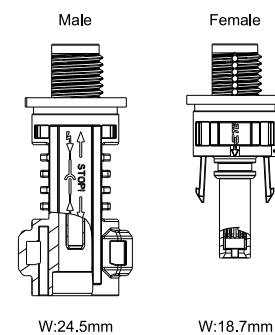
Benefits

- 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
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
PREFERRED CHOICE	1-1971919-1	PV4-PM CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	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
STANDARD	2270039-1	PV4-PM CONNECTOR-HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
STANDARD	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
STANDARD	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
STANDARD	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
STANDARD	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
STANDARD	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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