

[Manuals.plus](#) /

› [Sonew](#) /

› Sonew PV Connector, Anti Dust, High Tenacity, Inline Holder, IP67, DC1500V, with Overload for Universal PV Panels (20A) User Manual

Sonew Sonew96nkim5spq-11

Sonew PV Connector User Manual

Model: Sonew96nkim5spq-11

PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Sonew PV Connector. This connector is designed for universal PV panels, offering robust and reliable connections for solar power generation systems.



Image: Angled view of the Sonew PV Connector, showcasing its black, cylindrical design with connection points.

Key features of the Sonew PV Connector include:

- **IP67 Rating:** Provides excellent protection against water, dust, and overheating.
- **Overload Protection:** Features an automatic function where the core disconnects when overloaded, ensuring safety and extending lifespan.
- **Universal Compatibility:** Suitable for most PV panels and connectors available on the market.
- **Durable Construction:** Made from heat-resistant, flame-retardant, and proof PPO plastic material for long-term reliability.
- **Plug and Play:** Designed for quick and easy installation.

SPECIFICATIONS

Specification	Value
Item Type	Photovoltaic Connector
Material	PPO plastic
Temperature Range	-40°C to +150°C
IP Grade	IP67
Breaking Capacity	20KA

Time Constant	1-3ms
Size (Current Rating)	20A
Product Dimensions	7.08 x 2.36 x 1.18 inches
Item Weight	2.29 ounces

SETUP AND INSTALLATION

The Sonew PV Connector is designed for straightforward installation. While specific wiring diagrams may vary based on your PV panel setup, the general process involves securely connecting the connector to your solar panels and associated wiring.

- Preparation:** Ensure all power sources are disconnected before handling any electrical components. Gather necessary tools, such as wire strippers and crimpers, if required for your specific wiring.
- Connection:** Align the connector with the corresponding PV panel output or input. The "plug and play" design allows for quick and secure attachment. Ensure a firm connection to prevent loose contacts.
- Secure Fit:** Verify that the connector is fully seated and locked into place. The robust design ensures a high-tenacity connection.
- System Integration:** Once connected, integrate the PV connector into your solar power system according to your system's design and local electrical codes.





Image: Side view of the Sonew PV Connector, showing its elongated shape and connection points.

Note: Always consult a qualified electrician or solar professional if you are unsure about any installation steps.

OPERATING PRINCIPLES

The Sonew PV Connector operates as a critical link in your solar power system, facilitating the flow of direct current (DC) from your PV panels. Its primary operational features include:

- **Current Transmission:** Designed to handle DC1500V and a 20A current rating, ensuring efficient power transfer.
- **Overload Protection:** In the event of an electrical overload, the internal core of the connector is designed to automatically disconnect. This safety mechanism prevents damage to your PV system components and ensures safer power generation.
- **Environmental Resistance:** The IP67 rating ensures the connector remains fully functional even in challenging outdoor conditions, resisting dust ingress and temporary immersion in water.

Waterproof grade IP67



Image: The Sonew PV Connector shown with water splashes, visually representing its IP67 waterproof grade.

MAINTENANCE

The Sonew PV Connector is built for durability and requires minimal maintenance due to its robust construction and IP67 rating. However, periodic checks can help ensure optimal performance and longevity:

- **Visual Inspection:** Periodically inspect the connector for any signs of physical damage, cracks, or discoloration. Ensure the connections are still tight and secure.
- **Cleaning:** If dust or debris accumulates on the exterior, gently wipe the connector with a clean, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Environmental Check:** While the connector is IP67 rated, ensure that it is not continuously submerged or exposed to extreme conditions beyond its specified temperature range (-40°C to +150°C).

No user-serviceable parts are inside the connector. Do not attempt to disassemble the unit.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Sonew PV Connector.

Issue: Power Interruption / No Output from PV Panel

- **Possible Cause 1: Overload Protection Activated.**

Solution: The connector's core automatically disconnects when overloaded. Identify and resolve the source of the overload in your PV system. Once the overload condition is removed, the connector should reset. If it does not, ensure the system is de-energized and check the connector for any visible damage before re-energizing.

- **Possible Cause 2: Loose Connection.**

Solution: Ensure the connector is securely and fully engaged with the PV panel and associated wiring. A loose connection can lead to intermittent power or complete loss of output.

- **Possible Cause 3: Physical Damage.**

Solution: Inspect the connector for any visible signs of damage, such as cracks, burns, or corrosion. If damage is present, the connector should be replaced immediately by a qualified professional.

Issue: Connector is Difficult to Connect/Disconnect

- **Possible Cause: Misalignment or Debris.**

Solution: Ensure proper alignment before attempting to connect. Check for any debris or foreign objects inside the connector ports that might obstruct the connection. Clean if necessary.

If troubleshooting steps do not resolve the issue, contact customer support or a qualified solar technician. Do not attempt repairs beyond the scope of this manual.

WARRANTY INFORMATION

Specific warranty details for the Sonew PV Connector are not provided in the available product information. Please refer to the product packaging or contact the manufacturer directly for warranty terms and conditions.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Sonew PV Connector, please visit the official Sonew store or contact their customer service department. Contact information may be available on the product packaging or the manufacturer's official website.

You can visit the Sonew Store at: [Sonew Official Store](#)