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## Nuofany solar-DC8

# Nuofany Solar Panel Connector to DC 8MM Adapter Cable (Model: solar-DC8) Instruction Manual

Connecting Solar Panels to Portable Power Stations

## 1. PRODUCT OVERVIEW

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The Nuofany Solar Panel Connector to DC 8MM Adapter Cable is designed to facilitate the connection between solar panels equipped with standard solar connectors and portable power stations or solar generators that utilize an 8mm DC input port. This cable enables efficient charging of your portable power station, making it suitable for outdoor travel, RVs, campers, trailers, and boats.



Figure 1: Nuofany Solar Panel Connector to DC 8MM Adapter Cable. This image displays the full length of the adapter cable, showing the solar connectors on one end and the DC 8mm plug on the other, with black and red wiring.

## 2. SPECIFICATIONS

Feature	Detail
Rated Voltage	36 Volts
Rated Current	13 Amps
Maximum Power (Solar Panel)	Up to 200 Watts
Cable Length	180 cm (6 feet)
Wire Gauge (Solar Connector Part)	14 AWG
Wire Gauge (DC 8MM Part)	16 AWG
Polarity	Solar Connector Female: Positive (Red Wire); Solar Connector Male: Negative (Black Wire)
Material	Copper
Efficiency	High Efficiency
Item Weight	0.12 Kilograms (4.2 ounces)
Model Number	solar-DC8

### 3. SETUP INSTRUCTIONS

Follow these steps to correctly set up your Nuofany Solar Panel Connector to DC 8MM Adapter Cable:

- Select Your Solar Panel:** Ensure your solar panel's voltage and wattage are compatible with your portable power station and within the cable's specifications (up to 200 Watts).
- Verify Solar Connectors:** Confirm that your solar panel is equipped with standard solar connectors. If not, acquire and install them according to the solar panel manufacturer's instructions.
- Connect Solar Panel to Adapter Cable:** Connect the solar connectors from your solar panel to the corresponding solar connectors on the adapter cable. Ensure a secure and firm connection.



Figure 2: Close-up view of the solar connectors (MC4 type) on the adapter cable. These connectors are designed for secure and weather-resistant connections to compatible solar panels.

4. **Connect DC Plug to Power Station:** Insert the DC 8mm plug of the adapter cable into the DC 8mm input port of your portable power station or solar generator.



Figure 3: Close-up view of the DC 8mm connector. This plug connects to the input port of compatible portable power stations and solar generators.

5. **Position Solar Panel:** Place your solar panel in direct sunlight to maximize power generation.
6. **Activate Power Station:** Turn on your portable power station. It should begin charging from the solar panel.

#### 4. OPERATING INSTRUCTIONS

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Once connected, the Nuofany Solar Panel Connector to DC 8MM Adapter Cable operates automatically to transfer power from your solar panel to your portable power station. Ensure optimal performance by:

- **Maintaining Sunlight Exposure:** Periodically adjust your solar panel's position to follow the sun's path throughout the day for continuous and efficient charging.
- **Monitoring Charging Status:** Refer to your portable power station's display or indicators to confirm that it is receiving charge from the solar panel.
- **Compatibility:** This cable is compatible with various portable power stations and solar generators, including

Explorer 160, 240, 500, 1000, and GZ Yeti models.



Figure 4: Illustrative image showing the adapter cable connected to a solar panel array, demonstrating a typical usage scenario for charging a portable power station.

## 5. MAINTENANCE

To ensure the longevity and reliable performance of your adapter cable, follow these maintenance guidelines:

- **Regular Inspection:** Periodically inspect the cable for any signs of wear, cuts, fraying, or damage to the connectors.
- **Clean Connectors:** Keep the solar connectors and the DC 8mm plug clean and free from dirt, dust, and moisture. Use a dry, soft cloth for cleaning.
- **Proper Storage:** When not in use, coil the cable neatly and store it in a dry, cool place away from direct sunlight and extreme temperatures. Avoid kinking or bending the cable sharply.
- **Avoid Overstretching:** Do not pull or stretch the cable excessively, especially at the connection points, as this can damage the internal wiring.

## 6. TROUBLESHOOTING

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If you encounter issues while using your Nuofany Solar Panel Connector to DC 8MM Adapter Cable, consider the following:

- **No Charging/Intermittent Charging:**

- Ensure all connections are secure and fully seated.
- Verify the solar panel is receiving adequate sunlight.
- Check the polarity: Solar Connector Female (Red Wire) is Positive, Male (Black Wire) is Negative.
- Confirm your solar panel's output is within the cable's rated capacity (10W-200W).

- **Compatibility with Jackery Explorer 1000v2 and similar devices:**

- Some portable power stations, like the Jackery Explorer 1000v2, may require a specific DC 8mm plug type (e.g., DC8020 with a 2mm center pin) which differs from the DC7909 (0.9mm center pin) that this cable may feature.
- If the DC 8mm plug fits but no contact is made, the center pin size may be incompatible. Verify the exact DC 8mm input specification of your power station.

- **Overheating or Melting:**

- This cable is designed for solar panels up to 200 Watts. Using it with panels exceeding this wattage (e.g., 400W) can lead to overheating, damage to the cable, or connected devices.
- Always operate within the specified power limits to prevent hazards.

- **Wire Gauge Discrepancy:**

- The cable features 14 AWG wire for the solar connector part and 16 AWG wire for the DC 8mm part. Ensure these gauges are appropriate for your application and power requirements.

## 7. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Nuofany Solar Panel Connector to DC 8MM Adapter Cable, please refer to the product packaging or contact Nuofany customer service directly. Keep your purchase receipt as proof of purchase.