

Topyond Topyondis7vpggn29-13

Topyond Solar Charge Controller User Manual

Model: Topyondis7vpggn29-13

INTRODUCTION

This manual provides detailed instructions for the Topyond Solar Charge Controller, Model Topyondis7vpggn29-13. It covers setup, operation, maintenance, and troubleshooting to ensure safe and efficient use of your solar charging system. Please read this manual thoroughly before operating the device.

IMPORTANT SAFETY INSTRUCTIONS

- Always connect the solar charge controller's DC5521 interface directly to the controller for proper installation.
- Regularly inspect and maintain the solar charge controller to ensure optimal performance and safety.
- Avoid exposing the controller to extreme temperatures outside its operating range (-35°C to +60°C) to prevent damage.
- Refer to this manual for all setup, usage, and troubleshooting procedures.
- Do not attempt to disassemble or modify the controller. Unauthorized modifications can lead to malfunction or injury.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Keep the controller away from water and excessive moisture.

PRODUCT FEATURES

- **Efficient Charging:** Supports fast charging protocols, including Dual USB and Type C, for rapid charging of mobile devices and rechargeable batteries.
- **Direct PV Panel Integration:** Allows direct connection to PV panels for seamless solar charging, simplifying wiring.
- **Comprehensive Safety Protection:** Includes built-in protection against battery reverse discharge, undervoltage, reverse connection, overload, and short circuit.
- **Universal Compatibility:** Compatible with 12V and 24V lithium-ion battery packs, as well as LFP battery packs. Automatically identifies battery type or allows manual adjustment.
- **Portable Design:** Constructed from high-quality ABS material, lightweight (approx. 120g/4.2oz), and designed for portability in outdoor environments.

PACKAGE CONTENTS

The package includes:

- 1 x Topyond Solar Charge Controller (Model: Topyondis7vpggn29-13)
- 1 x User Manual

SETUP INSTRUCTIONS

1. Unpacking and Inspection

Upon opening the package, verify that all components listed in the "Package Contents" section are present and undamaged.

2. Connecting the Battery

Connect the battery to the solar charge controller first. Ensure correct polarity: positive to positive, negative to negative. The controller will automatically detect the battery voltage (12V or 24V).

3. Connecting the Solar Panel (PV)

Connect the solar panel to the controller. Ensure the DC5521 interface is securely connected. The controller will begin charging the battery from the solar panel.

4. Connecting the Load (Optional)

If using the controller to power a DC load directly, connect the load to the designated output terminals. For charging mobile devices, use the USB or Type-C ports.

Connection Diagram

This image illustrates the proper connection sequence for the solar panel, controller, and battery.



Image: A Topyond solar charge controller is shown connected to a solar panel on the left and a battery on the right, illustrating the correct wiring setup.

DC5521 Interface

The DC5521 interface provides a direct and secure connection for your PV panels, eliminating complex wiring.



dc5521 interface

Direct access to the controller, eliminating wiring troubles.

Image: A close-up view of the solar charge controller's side, with text indicating the "dc5521 interface" for direct access.

OPERATING INSTRUCTIONS

1. Power On/Off

The controller powers on automatically when a battery and solar panel are connected. There is no manual power button.

2. Display and Buttons

The integrated display shows real-time charging status, battery voltage, and other operational parameters. Use the buttons below the display to navigate through different screens and adjust settings if applicable.



Image: A detailed view of the solar charge controller's front panel, showing the digital display and three control buttons for settings and navigation.

3. Charging Mobile Devices

The controller features Dual USB and Type-C ports for fast charging of external devices. Connect your mobile phone, tablet, or other USB-powered devices to the appropriate port.



Dual USB, Type are supported fast charging protocols, so that the phone, charging treasure faster charging

Image: The solar charge controller with text indicating "Dual USB, Type are supported fast charging protocols," highlighting the USB 3.0, USB 2.0, and Type-C output ports.

4. Battery Type Selection (if manual adjustment is needed)

While the controller automatically identifies common battery types, some advanced settings might allow manual selection. Refer to the on-screen menu using the control buttons for specific battery type adjustments (e.g., Lithium-ion, LFP).

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your solar charge controller.

- **Cleaning:** Keep the controller clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- **Connection Checks:** Periodically check all wiring connections (battery, solar panel, load) to ensure they are secure and free from corrosion.
- **Environmental Conditions:** Ensure the controller is not exposed to conditions outside its specified operating temperature range (-35°C to +60°C). Protect it from direct sunlight, rain, and excessive humidity.
- **Firmware Updates:** Check the manufacturer's website (Topyond) for any available firmware updates, though this model

typically does not require user-initiated updates.

TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Controller display is off.	No battery connected or battery voltage is too low.	Ensure the battery is properly connected and has sufficient charge.
Battery not charging.	Solar panel not connected, insufficient sunlight, or faulty connections.	Check solar panel connections. Ensure adequate sunlight. Verify all wiring.
USB/Type-C ports not charging devices.	Battery voltage too low, device not compatible, or cable issue.	Ensure battery is charged. Try a different device or charging cable.
Overload or Short Circuit Protection activated.	Too many devices connected or a short circuit in the load.	Disconnect some loads or identify and fix the short circuit. The controller should reset automatically.

SPECIFICATIONS

Feature	Detail
Brand	Topyond
Model	Topyondis7vpggn29-13
Material	ABS
Weight	Approx. 120g (4.2oz)
USB Output	5V (Dual USB, Type C Fast Charge)
Product Current	100A
Operating Temperature	-35°C to +60°C (-31°F to +140°F)
Battery Compatibility	12V/24V Lithium-ion, LFP battery packs
Protection Features	Battery reverse discharge, undervoltage, reverse connection, overload, short circuit

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Topyond customer service. Refer to the product packaging or the official Topyond website for contact details.

Note: This manual does not constitute a warranty statement. Specific warranty terms and conditions are provided separately by the manufacturer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question