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SolarEpic MT-50

EPEVER MT-50 Remote Meter User Manual

Model: MT-50 | Brand: SolarEpic

Introduction

The SolarEpic MT-50 Remote Meter is designed for use with EPEVER Tracer AN, BN, and Triron Series MPPT Charge Controllers. It provides real-time operational data and allows for monitoring and modification of device parameters, enhancing the control and visibility of your solar charging system.

Safety Information

General Safety Guidelines

- Read all instructions carefully before installation and operation.
- Ensure proper connection to compatible charge controllers.
- Do not expose the device to extreme temperatures, moisture, or direct sunlight for prolonged periods.
- Disconnect power before performing any maintenance or installation.
- Keep out of reach of children.

Package Contents

What's Included



Figure 1: Package Contents

The package typically includes:

- EPEVER MT-50 Remote Meter
- Communication Cable (RJ45)
- Mounting Frame
- Mounting Screws and Anchors
- Instruction Manual

Product Overview

Components and Features

The MT-50 remote meter features a large-screen multifunction LCD for clear display of data. It includes six navigation function keys for direct and convenient operation.



Figure 2: Front View of MT-50 Remote Meter

The back of the unit features an RJ45 port for connection to the charge controller.



Figure 3: Rear View with RJ45 Port

Key Features:

- Automatic identification and display of controller type, model, and parameter data.
- Real-time display of operational data in digital, graphic, and textual forms.
- Six navigation function keys for easy operation.
- Data and power flow on the same lead, eliminating the need for external power.
- Real-time data monitoring and remote load switchover.
- Data browse and modification of device, charge control, and load control parameters.
- Real-time display and acoustic alarm for failure information.
- Longer communication distance based on RS485.

Setup

Installation Guide

The MT-50 remote meter is designed for easy installation.

1. **Mounting the Frame:** Secure the mounting frame to a flat surface using the provided screws. Ensure the communication cable can be routed through the opening.



Figure 4: Mounting Frame and Meter Unit

   This image illustrates the two main parts of the MT-50: the outer mounting frame and the inner meter unit.

2. **Connecting the Communication Cable:** Connect the RJ45 communication cable to the port on the back of the MT-50 meter unit.
3. **Inserting the Meter:** Carefully insert the MT-50 meter unit into the mounted frame, ensuring the cable is not pinched. Secure it with the small screws on the front.
4. **Covering Screw Holes:** Place the rubber caps over the screw holes for a clean finish.

Visual Installation Steps:

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Video 1: Installation of SolarEpic MT50 Remote Meter

This video demonstrates the unboxing and installation process of the SolarEpic MT50 Remote Meter, including securing the mounting frame, connecting the communication cable, and attaching the meter unit.

Operating

The MT-50 allows you to monitor and configure your compatible EPEVER MPPT charge controller.

LCD Display Setting

The LCD displays various parameters and settings. Use the navigation buttons (Up, Down, Left, Right, OK, Esc) to navigate through menus and adjust values.

Your browser does not support the video tag.

Video 2: Setting the MPPT Controller Via MT50 Meter

This video demonstrates how to navigate the LCD display and adjust settings on your MPPT charge controller using the MT-50 Remote Meter, including battery type, voltage limits, and load control modes.

Navigation Keys

- **OK:** Confirms selection or enters a menu.
- **Esc:** Exits current menu or cancels an operation.
- **Up/Down Arrows:** Navigate through menu options or adjust values.
- **Left/Right Arrows:** Move cursor or change digits during value adjustment.

Monitoring Data

The main screen displays real-time data such as solar panel voltage/current, battery voltage/current, and load status.

Parameter Modification

To modify parameters (e.g., battery type, charge limits, load control modes), navigate to the "Control Para." menu. Enter the password if prompted (default is usually 000000). Adjust values using the arrow keys and confirm with "OK".

Maintenance

Care and Cleaning

- Keep the MT-50 clean and dry.
- Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- Regularly check the communication cable for any signs of damage.
- Ensure the mounting screws are secure.

Troubleshooting

Common Issues and Solutions

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Display not turning on	No power from controller; faulty cable; incompatible controller.	Check controller power and connections. Ensure compatibility with Tracer AN/BN/Triron series. Replace cable if damaged.
"Connecting" message displayed continuously	Communication issue; incompatible controller firmware.	Verify cable connection. Ensure controller firmware is compatible (G3 firmware for MT52 compatibility).
Cannot change settings	Settings locked; incorrect password.	Navigate to "Control Parameter" and select "User" mode. Enter correct password (default usually 000000).
Inaccurate readings	Loose connections; sensor issue.	Check all cable connections. Consult controller manual for sensor troubleshooting.

Specifications

Technical Data

- **Display Type:** LCD
- **Operating Temperature:** -20°C to 70°C (-4°F to 158°F)
- **Product Dimensions:** 3.3 x 5.8 x 5.6 inches (8.38 x 14.73 x 14.22 cm)
- **Item Weight:** 14.4 ounces (408 grams)
- **Material:** Plastic
- **Communication Interface:** RJ45 (RS485)
- **Compatibility:** EPEVER Tracer AN, BN, and Triron Series MPPT Charge Controllers

Warranty and Support

Product Warranty

For warranty information and support, please refer to the official SolarEpic website or contact their customer service. Keep your purchase receipt for warranty claims.

Manufacturer: EPsolar

Brand: SolarEpic

Website: www.solarepic.com

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