

Anern 30A

Anern MPPT Solar Charge Controller 30A User Manual

Model: 30A | Brand: Anern

1. INTRODUCTION

The Anern MPPT Solar Charge Controller is an advanced Maximum Power Point Tracking (MPPT) photovoltaic battery charge controller designed to optimize the energy harvest from your solar panels. It automatically identifies 12V to 24V battery systems and offers superior efficiency compared to traditional PWM controllers, potentially increasing solar panel output by 5% to 30%. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure safe and efficient use of your solar charge controller.



Figure 1: Front view of the Anern MPPT Solar Charge Controller 30A, showing the LCD display and control buttons.

2. KEY FEATURES

- **Advanced MPPT Technology:** Innovative Maximum Power Point Tracking with monitoring efficiency up to 99%, optimizing solar panel output.
- **Automatic System Voltage Recognition:** Automatically identifies 12V or 24V battery systems.
- **High Rated Charging Current:** Supports a rated charging current of 30A with a maximum PV input voltage of 100V.
- **Multiple Charging Modes:** Features 4 distinct load operating modes: Regular Mode, Light Control Mode, Light and Time Control Mode, and Light Inversion Control Mode.
- **Intelligent 4-Stage Charging:** Utilizes fast charging, boost charging, float charging, and balance charging to enhance charging speed and extend battery life.
- **Comprehensive Protection:** Includes reverse polarity protection for battery and solar panel, overcurrent protection, short circuit protection, overload protection, open circuit protection, and undervoltage protection.
- **Robust Design:** Equipped with temperature sensors and heat dissipation panels made of aluminum alloy for durability and efficient cooling.
- **User-Friendly Display:** LCD display provides real-time system information.

3. PRODUCT OVERVIEW AND COMPONENTS

The Anern MPPT Solar Charge Controller features a compact design with a clear LCD display and intuitive control buttons. It is built with a robust casing and an integrated heat sink for optimal performance and longevity.

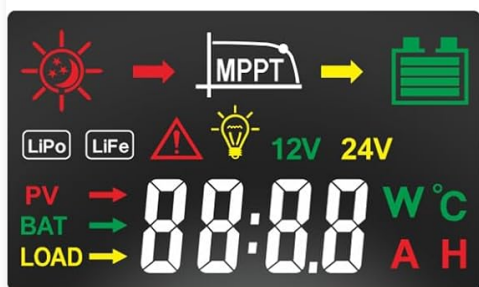


Figure 2: Angled view of the solar charge controller, highlighting the heat dissipation fins at the bottom.

3.1 Interface Description

The LCD display provides critical information about the system status, including photovoltaic input, battery status, and load status. The control buttons allow for navigation and setting adjustments.

Descrizione dell'interfaccia



Articolo	ICO		Stato	
Campo fotovoltaico			Giorno	Notte
			Carica	
Batteria			Carica /Capacità della batteria	
			Tipo di batteria	
Carica			Carica	Scarico

Pulsante -Significato	Schema dei pulsanti	Funzione del pulsante
MENÙ		Premere brevemente per scendere e tenere premuto per 3 secondi per passare all'interfaccia successiva
SET		Premere brevemente per passare all'interfaccia superiore Tenere premuto per 3 secondi per terminare il processo senza memorizzare

Figure 3: Detailed description of the LCD interface and button functions.

LCD Display Icons:

Item	Icon	Status
Photovoltaic Field	Sun/MPPT Arrow	Day / Night
Battery	Battery Icon	Charge / Battery Capacity
Battery Type	LiPo / LiFe	Battery Type (e.g., Lithium, Lead-Acid)
Load	Light Bulb Icon	On / Off

Button Functions:

Button - Meaning	Button Scheme	Button Function
MENU	Up Arrow	Press briefly to turn on and hold for 3 seconds to switch to the next interface.
SET	Down Arrow	Press briefly to switch to the previous interface. Hold for 3 seconds to terminate the process without saving.

4. INSTALLATION AND WIRING

Proper installation is crucial for the safe and efficient operation of your solar charge controller. Please follow these steps carefully.

4.1 Wiring Sequence

1. Connect the battery to the charge controller first. Ensure correct polarity.
2. Connect the solar panel(s) to the charge controller. Ensure correct polarity.
3. Connect the DC load (if any) to the charge controller. Ensure correct polarity.

Important Safety Note: Always connect the battery first and disconnect it last. Incorrect wiring sequence or reverse polarity can damage the controller and other components.

4.2 Battery Type Compatibility

The controller is compatible with various common battery types, including Lead Acid (GEL, FLD, AGM, SEL) and Lithium (LiPo, LiFe) batteries. Ensure you select the correct battery type in the controller settings for optimal charging and protection.

Funziona con tutti i tipi di batteria più comuni



Attivazione con batteria al litio 12V/24V Riconoscimento automatico



Figure 4: Diagram illustrating compatibility with various 12V/24V battery types, including Lithium (LiPo, LiFe), Sealed (SEL), Flooded (FLD), Gel (GEL), and AGM.

5. OPERATION AND LOAD MODES

The controller operates continuously and offers four distinct load operating modes to suit various application needs.

5.1 Load Operating Modes

4 Modalità di Funzionamento del Carico

Il controller funziona di serie per 24 ore e si possono scegliere 4 modalità di funzionamento del carico

LD1 (LD1)

Modalità regolare

Il carico funziona normalmente e può essere acceso o spento manualmente.



LD2 (LD2)

Modalità di controllo della luce

Il carico si apre automaticamente al crepuscolo e si chiude all'alba.



LD3 (LD3)

Modalità di controllo della luce e del tempo

Caricamento degli orari di lavoro dopo il tramonto, caricamento degli orari di lavoro prima dell'alba (rilevamento automatico del buio e della luce in base all'ambiente locale)



LD4 (LD4)

Modalità di controllo dell'inversione della luce

Il carico si apre automaticamente al crepuscolo, il carico si chiude automaticamente di notte.



Figure 5: Visual representation of the four load operating modes.

- **LD1 (Regular Mode):** The load functions normally and can be manually switched on or off via the controller's buttons.
- **LD2 (Light Control Mode):** The load automatically turns on at dusk (when ambient light falls below a threshold) and turns off at dawn (when ambient light rises above a threshold).
- **LD3 (Light and Time Control Mode):** This mode combines light sensing with a timer. The load turns on at dusk and operates for a set duration, then turns off. It can also be configured to turn on for a set duration before dawn. The controller automatically detects darkness and light based on the local environment.
- **LD4 (Light Inversion Control Mode):** In this mode, the load automatically turns on at sunrise and automatically shuts off at night. This is an inverted light control, suitable for specific applications where the load needs to be active during daylight hours.

6. PROTECTION FUNCTIONS

The Anern MPPT Solar Charge Controller is equipped with multiple intelligent protection features to ensure the safety and longevity of your system components.

Funzione di protezione



Figure 6: Diagram illustrating the various protection functions of the controller.

- **Solar Panel Reverse Polarity Protection:** Prevents damage if the solar panel is connected with incorrect polarity.
- **Battery Reverse Polarity Protection:** Protects the controller and battery from damage if the battery is connected with incorrect polarity.
- **Battery Overvoltage Protection:** Automatically stops charging when the battery voltage reaches the overvoltage threshold, preventing overcharging.
- **Battery Over-discharge Protection:** Disconnects the load when the battery voltage drops below the undervoltage point, preventing deep discharge and extending battery life.
- **Load Overload Protection:** Disconnects the load if the current exceeds the rated current, protecting the controller and connected devices.
- **Short Circuit Protection:** Automatically shuts down in case of a short circuit in the load or wiring.

- **Open Circuit Protection:** Ensures safe operation even if a circuit is inadvertently opened.

7. MAINTENANCE

To ensure optimal performance and longevity of your Anern MPPT Solar Charge Controller, periodic maintenance is recommended.

- **Cleanliness:** Keep the controller clean and free from dust and debris. Use a dry cloth for cleaning.
- **Connections:** Periodically check all wiring connections to ensure they are tight and free from corrosion. Loose connections can lead to power loss or overheating.
- **Ventilation:** Ensure that the heat sink and ventilation openings are not obstructed to allow for proper heat dissipation.
- **Environment:** Operate the controller within its specified temperature and humidity ranges. Avoid exposure to direct sunlight, rain, or excessive moisture.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your solar charge controller.

Problem	Possible Cause	Solution
Controller not turning on / No display	Battery not connected or reverse polarity; Battery voltage too low.	Check battery connections and polarity. Ensure battery voltage is above minimum operating voltage.
No charging from solar panels	Solar panel not connected or reverse polarity; Insufficient sunlight; PV voltage too low/high.	Check solar panel connections and polarity. Ensure adequate sunlight. Verify PV voltage is within controller's input range.
Load not working	Load not connected or reverse polarity; Load overload/short circuit; Battery undervoltage; Load mode setting.	Check load connections and polarity. Reduce load or check for short circuit. Charge battery. Verify load operating mode (LD1, LD2, etc.).
Battery not fully charged	Insufficient solar input; Incorrect battery type setting; Battery aging.	Increase solar panel capacity or improve sun exposure. Verify correct battery type setting. Consider battery replacement if old.
Overheating	Poor ventilation; Excessive load.	Ensure proper airflow around the controller. Reduce load if consistently overheating.

9. TECHNICAL SPECIFICATIONS

Below are the detailed technical specifications for the Anern MPPT Solar Charge Controller 30A.

Parameter	Value
Model Number	30A
Rated Charging Current	30 A
System Voltage	12V / 24V Auto-identification
Max PV Input Voltage	100 V
Max PV Power (12V System)	390 W
Max PV Power (24V System)	780 W
Load Output Current	20 A
Display Type	LED
Material Type	Plastic Metal
Product Dimensions (L x W x H)	19.5 x 13.2 x 5.4 cm
Item Weight	1 Kilogram
Color	Royal



Figure 7: Dimensions of the Anern MPPT Solar Charge Controller 30A.

10. APPLICATIONS

The Anern MPPT Solar Charge Controller is versatile and suitable for a wide range of solar power applications, including but not limited to:

- Residential off-grid solar systems
- RV and campervan solar setups
- Marine solar power systems (boats, yachts)
- Remote monitoring stations
- Solar street lighting

Applicazione



Figure 8: Examples of typical applications for the solar charge controller, including residential, street lighting, marine, and recreational vehicles.

11. WARRANTY AND SUPPORT

11.1 Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the product packaging or contact your retailer for specific warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

11.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Anern customer support or your authorized dealer. You may also find additional resources and FAQs on the official Anern website.

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Related Documents - 30A

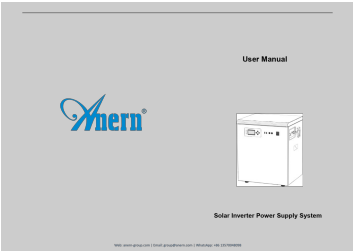
	PWM Solar Charge Controller User Manual - AT15, AT20L, LT20, FT20 User's manual for the Anern PWM Solar Charge Controller series AT15, AT20L, LT20, FT20. This guide details product features, installation, operation, parameter settings, and technical specifications.
	2.0KVA/3.2KVA Inverter MPPT SCC AC Charger User Manual Comprehensive user manual for the 2.0KVA/3.2KVA Inverter with MPPT SCC and AC Charger. Covers installation, operation, features, specifications, and troubleshooting. Includes safety instructions, system architecture, and detailed settings for optimal performance.
	MPPT Hybrid Solar Inverter User Manual This user manual provides detailed information on the features, installation, operation, and maintenance of the MPPT Hybrid Solar Inverter. It covers technical specifications, troubleshooting, and safety precautions for the AN-MPSG model.
	AN-SCI-EVO-2000 & AN-SCI-EVO-3200 Inverter User Manual Comprehensive user manual for the Anern AN-SCI-EVO-2000 and AN-SCI-EVO-3200 Pure Sine Wave Solar Hybrid Inverters. Covers installation, operation, specifications, and troubleshooting.

 12V LiFePO4 Battery Instructions	Anern 12V LiFePO4 Battery Instructions and Specifications Comprehensive guide to Anern 12V LiFePO4 deep cycle rechargeable batteries, detailing technical specifications for 50AH, 100AH, and 200AH models, BMS functions, series/parallel connection methods, and essential safety precautions.
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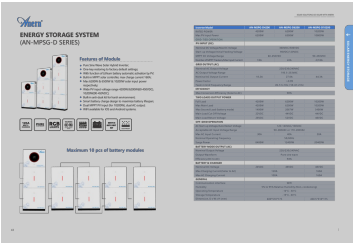
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49.8VDC 46.8VDC 37.2VDC 3000W 60-150VDC 60A MPPT 49.8VDC 46.8VDC
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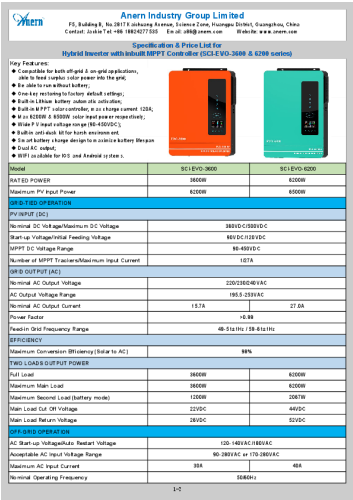
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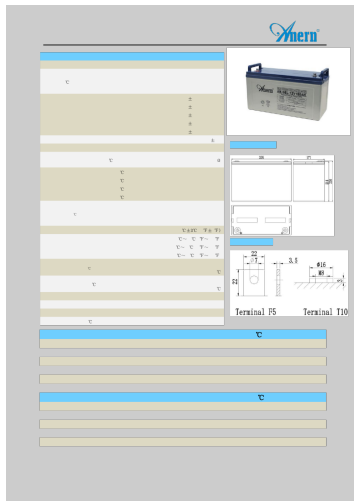


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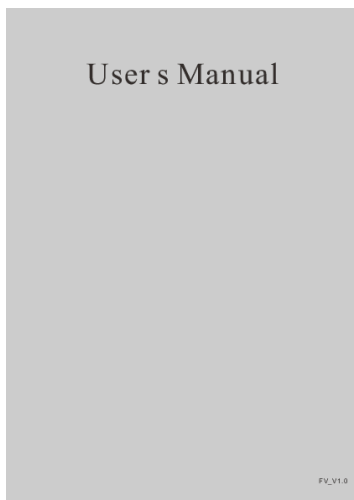


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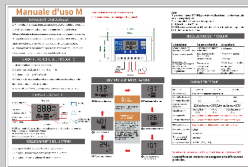


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IBM 1130 Computing System Users Guide

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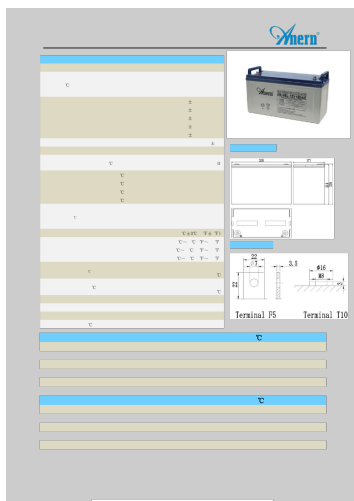
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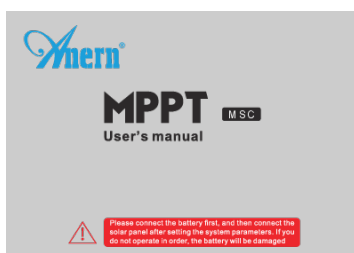
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AN-SCI-EVO-2000
AN-SCI-EVO-3200
INVERTER/MPPT SCC/AC CARICABATTERIE

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AN-SCI-MAX-10200
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ANERN Hybrid Solar Inverter (EVO Series) - AN-SCI-EVO-4200 & AN-SCI-EVO-6200 Technical Specifications

Detailed technical specifications and features for the ANERN AN-SCI-EVO-4200 and AN-SCI-EVO-6200 Hybrid Solar Inverters. Explore PV input, AC output, battery charging, efficiency, and operating conditions for these advanced solar solutions.

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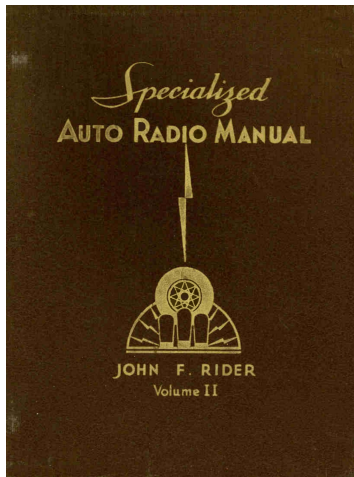
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Your Sinclair Magazine Issue 67 - July 1991 - Retro Gaming Review

A look back at the July 1991 issue of Your Sinclair magazine, featuring reviews and previews of ZX Spectrum games like Toki, Alien Storm, Cromwell at War, and more, plus tips, cheats, and retro computing news.

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