

Hoymiles MS-A2

Hoymiles MS-A2 Solar Battery Storage System User Manual

Comprehensive guide for installation, operation, and maintenance of your MS-A2 solar battery.

1. PRODUCT OVERVIEW

The Hoymiles MS-A2 is an innovative 2.2 kWh LFP solar battery storage system designed for seamless integration with existing solar setups. It is the first AC-coupled balcony energy storage system on the market, offering perfect compatibility with all micro-inverters.

With an integrated battery capacity of up to 2240 Wh, the system allows for easy expansion by connecting two devices in series. Its plug-and-play design ensures flexibility and ease of installation, requiring only two steps for a hassle-free electrical connection.

The MS-A2 prioritizes safety, holding ETSI EN 303 645 cybersecurity certification to protect your personal data. It provides real-time monitoring and control through a dedicated application, putting energy management directly in your hands. Built with high-reliability LFP batteries, the MS-A2 complies with the IEC 62619 standard and supports over 6000 battery cycles, ensuring long-term durability and peace of mind.

Key Features:

- **Integrated Energy Storage:** 2.2 kWh LFP battery capacity.
- **AC-Coupled Design:** First of its kind for balcony systems, compatible with all micro-inverters.
- **Expandable Capacity:** Connect two units in series for increased storage.
- **Plug and Play Installation:** Simple, two-step electrical connection.
- **Advanced Security:** ETSI EN 303 645 cybersecurity certified.
- **Smart Monitoring:** Real-time control via the S-Miles Home application.
- **High Durability:** LFP battery technology with over 6000 charge cycles.

2. SETUP GUIDE

2.1 Unpacking

Carefully remove the MS-A2 battery from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the packing list are present.



Figure 2.1: Front view of the Hoymiles MS-A2 solar battery, showing the control panel and battery indicator.



Figure 2.2: Rear view of the Hoymiles MS-A2 solar battery, showing the heat sink and connection ports.

2.2 Placement

The MS-A2 is designed for versatile placement, from balconies to outdoor areas. Choose a location that is dry, well-ventilated, and protected from direct sunlight and extreme temperatures. Ensure the mounting surface is stable and can support the weight of the unit (over 30kg).



Figure 2.3: Example of an outdoor installation setup for the MS-A2 battery system.

2.3 Electrical Connection

The MS-A2 features a plug-and-play design for straightforward electrical connection. It can be connected to a standard power outlet (Schuko) or directly integrated with your micro-inverter system using MC4 connectors. Ensure all connections are secure before powering on the device.



Figure 2.4: Diagram illustrating the connection of the MS-A2 battery with a solar panel and micro-inverter.

1. Connect your solar micro-inverter (max. 1800W) to the designated input on the MS-A2.
2. Plug the MS-A2 into a standard electrical outlet using the provided Schuko connector.
3. For series connection of two MS-A2 units, follow the specific instructions provided in the separate expansion guide.

3. OPERATION

3.1 Powering On/Off

To power on the MS-A2, press and hold the power button on the control panel until the indicator lights illuminate. To power off, press and hold the power button again until the lights turn off.

3.2 Monitoring with S-Miles Home App

The MS-A2 offers real-time monitoring and control via the S-Miles Home application, available for iOS and Android devices. Download the app from your device's app store.

1. Download and install the **S-Miles Home** app.
2. Register an account and log in.
3. Follow the in-app instructions to connect your MS-A2 unit via Wi-Fi. Ensure your Wi-Fi router name is not excessively long, as this may cause connection issues.
4. Once connected, you can monitor energy production, consumption, battery status, and adjust settings.

3.3 Energy Management

The MS-A2 intelligently manages energy flow. It can store excess solar energy for later use, reducing reliance on the grid. The system supports up to 1000W charging power (adjustable from 100W to 1000W) and can feed up to 1000W into the home grid, with a maximum of 800W fed back to the utility grid.

The minimum discharge capacity configurable via the app is 10% (adjustable range 10% to 30%). This ensures the longevity of the LFP battery, which is rated for over 6000 cycles.

4. MAINTENANCE

4.1 Cleaning

Regularly clean the exterior of the MS-A2 unit with a soft, dry cloth to prevent dust accumulation. Do not use abrasive cleaners or solvents. Ensure ventilation openings are clear of obstructions.

4.2 Firmware Updates

Hoymiles regularly releases firmware updates to improve performance and add new features. These updates can typically be performed via the S-Miles Home application. Ensure your device is connected to a stable internet connection during updates.

4.3 Battery Care

The MS-A2 uses durable LFP (Lithium Iron Phosphate) batteries designed for long life. To maximize battery lifespan, avoid fully discharging the unit below the recommended minimum (10% via app settings). Store the unit in a cool, dry place if not in use for extended periods.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Cannot connect to Wi-Fi via S-Miles Home app.	Router SSID (network name) is too long.	Shorten your Wi-Fi router's SSID. Refer to your router's manual for instructions.
Lower than expected energy output/storage.	Conversion losses (AC to DC to AC); minimum discharge limit set.	Understand that approximately 15% of energy may be lost during conversion. The effective usable capacity is about 83% of 2.24 kWh due to the 10% minimum discharge setting and conversion losses. This is normal operation.
Unit not powering on.	No power supply; unit not properly connected.	Ensure the power cable is securely plugged into a working outlet. Check the power button operation.

Problem	Possible Cause	Solution
App shows incorrect data or is unresponsive.	Poor Wi-Fi signal; app glitch; outdated firmware.	Check Wi-Fi signal strength. Restart the app. Restart the MS-A2 unit. Check for and install any available firmware updates.

6. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Hoymiles
Model Number	MS-A2
Color	Grey
Connectivity Technology	Bluetooth, Wi-Fi
Connector Type	MC4, Schuko
Compatible Devices	Electronic devices (e.g., laptops, tablets, smartphones, etc.)
Compatible Phone Models	iOS, Android
Included Components	1 adapter
Input Voltage	230 Volts
Mounting Type	Floor Mount
Power Output	800 Watts (Max to grid), 1000 Watts (Max to home network)
Battery Capacity	2.24 kWh (integrated)
Battery Type	LFP (Lithium Iron Phosphate)
Battery Cycles	6000 cycles
Country of Origin	China
Date First Available	August 30, 2024

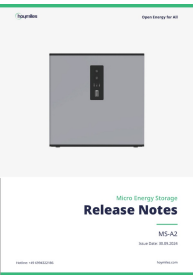
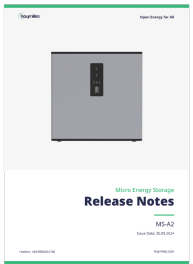
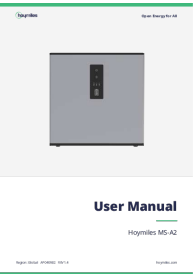
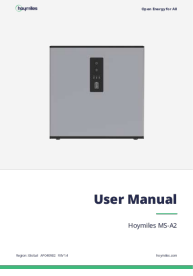
7. WARRANTY AND SUPPORT

Hoymiles is committed to providing excellent customer service and support for the MS-A2 solar battery system. While specific warranty details should be confirmed with your purchase documentation, Hoymiles products are known for their reliability and long-term performance, backed by LFP battery technology supporting over 6000 cycles.

For technical assistance, troubleshooting, or warranty claims, please contact Hoymiles customer support through their official website or the S-Miles Home application. Regular firmware updates are provided to enhance system functionality and address potential issues.

Note: Information regarding spare parts availability and guaranteed software updates was not explicitly provided in the product details. Please refer to the official Hoymiles website or contact customer support for the most current information.

Related Documents - MS-A2

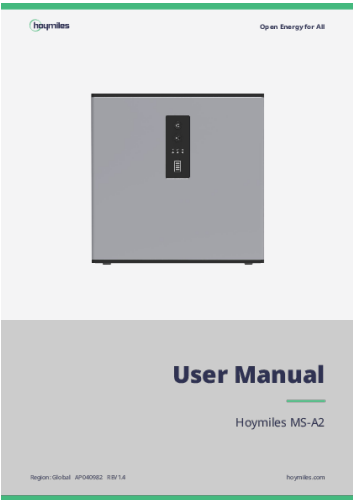
	Hoymiles MS-A2 Release Notes: New Features and Updates Detailed release notes for the Hoymiles MS-A2 Micro Energy Storage system, covering new features like Shelly device integration, dual MS-A2 setup, temporary load settings, and firmware upgrades.
	Hoymiles MS-A2 Release Notes: Enhanced Features and Firmware Updates This document provides release notes for the Hoymiles MS-A2 Micro Energy Storage system, detailing new functionalities such as integration with Shelly smart devices, support for dual MS-A2 configurations, temporary load settings, and instructions for firmware upgrades.
	Hoymiles MS-A2 User Manual: Installation, Operation, and Safety Guide Comprehensive user manual for the Hoymiles MS-A2 solar energy storage system, covering packing list, product overview, technical specifications, installation procedures, operation instructions, maintenance, and safety guidelines.
	GoodWe MS Series (5-10kW) G3 Grid-Tied PV Inverter User Manual Comprehensive user manual for the GoodWe MS Series (5-10kW) G3 grid-tied photovoltaic inverters, covering installation, operation, safety, and maintenance for technical professionals.
	Hoymiles MS-A2 User Manual: Installation, Operation, and Safety Comprehensive user manual for the Hoymiles MS-A2 solar microinverter and battery system, covering packing list, product overview, technical specifications, installation, app usage, storage, maintenance, and safety guidelines.



GoodWe MS Series Grid-Tied PV Inverter User Manual

Comprehensive user manual for GoodWe MS Series Grid-Tied PV Inverters (5-10kW G3), detailing installation, operation, safety, troubleshooting, and maintenance. Covers models like GW5000-MS-30 to GW10K-MS-30.

Documents - Hoymiles – MS-A2

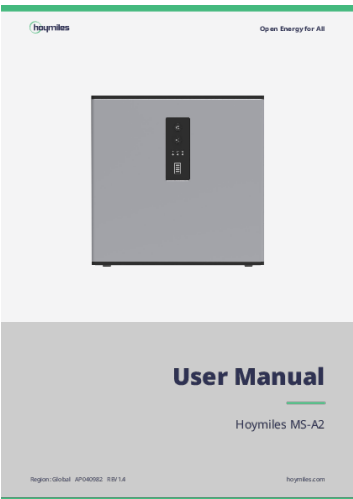


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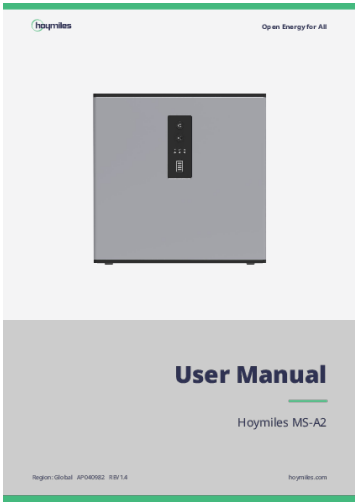
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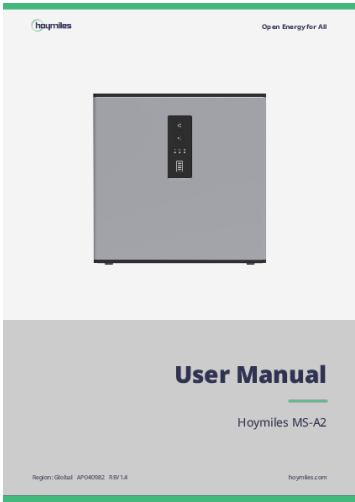
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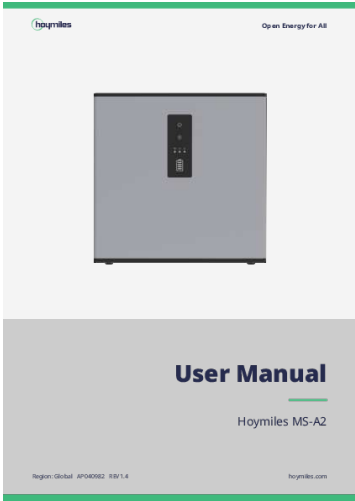
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[Hoymiles MS-A2 User Manual: Installation, Operation, and Safety Guide](#)

Comprehensive user manual for the Hoymiles MS-A2 solar energy storage system,
covering packing list, product overview, technical specifications, installation
procedures, operation instructions, maintenance, and safety guidelines.

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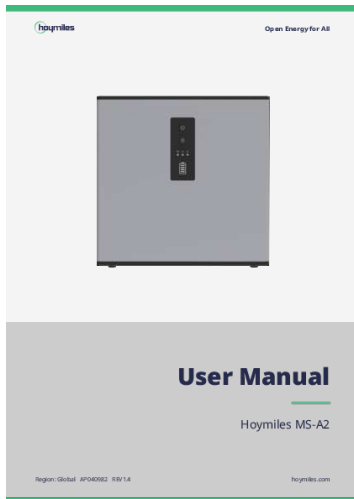
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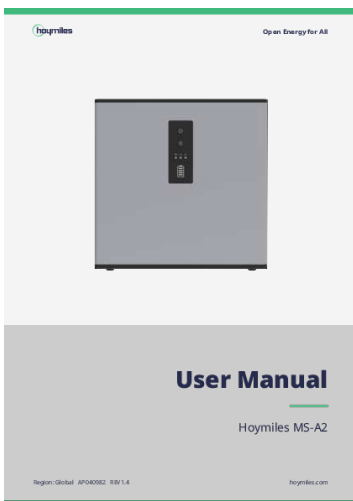


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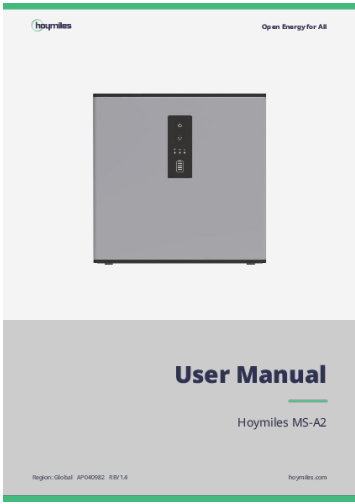


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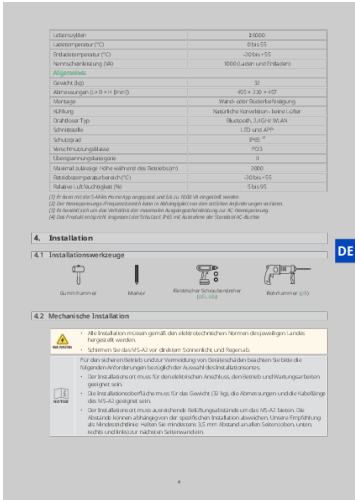
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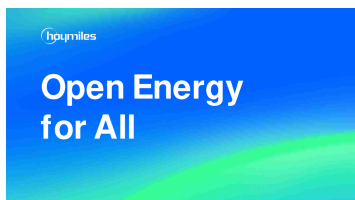
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[\[pdf\]](#) Datasheet

Datasheet MS A2 EU FI V202406 1 Mika Laatikainen Hoymiles kotiakkuHYBRIDIVOIMALA HOYMILES RALOS 2 46 kWp 25 kVA 24 kWh Pohjolan AurinkosähkötukkuHoymiles kotiakkuaurinkosahkotukku fi 2025 02 kotiakku |||

Hoymiles **MS-A2** Ota vastaan auringon kirkas valo**MS-A2** valaisee maailmasi pivin ja in Alue: Eurooppa V1.4 20240614 2024 Hoymiles Power Electronics Inc. Kaikki oikeudet pidätetään. sales hoymiles.com Avointa energiaa kaikille Vapauta potentiaali Markkinoiden ensimmäinen parvekkeelle tarkoitettu ACKy... lang:fi **score:25** filesize: 2.64 M page_count: 4 document date: 2025-02-03

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Datasheet MS A2 EU DE V20240612 DownloadHoymiles Balkonkraftwerk Speicher 2240 WhDatasheet V20240614cdn shopify s files 1 0852 2104 8653 V20240614 v 1746616713 DownloadDownloadHoymiles WhHoymiles Set 890 WDatasheet V20240614Datasheet 1746616713cdn 0736 0407 1692 1724920591 V20240614DownloadDownloadHoymiles München EnergieprodukteHoymiles V20240614shop muenchen energieprodukte de 2025 04 ||| ||| Hoymiles MS-A2 Genieen Sie den hellen Sonnenschein Der MS-A2 taucht Ihre Welt bei Tag und Nacht in strahlendes Licht Region: Europa V1.4 20240614 2024 Hoymiles Power Electronics Inc. Alle Rechte vorbehalten. sales hoymiles.com Potenzial ers ||| Hoymiles MS-A2 Genieen Sie den hellen Sonnenschein Der MS-A2 taucht Ihre Welt bei Tag und Nacht in strahlendes Licht Region: Europa V1.4 20240614 2024 Hoymiles Power Electronics Inc. Alle Rechte vorbehalten. sales hoymiles.com Potenzial ers

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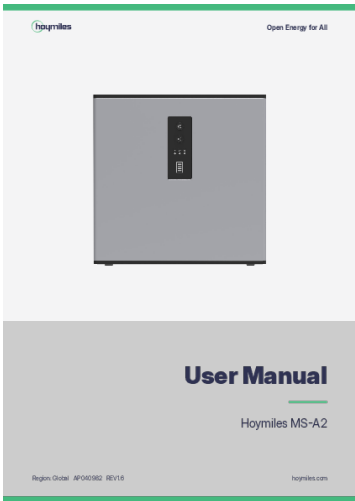
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Datasheet Looking for the Hoymiles MS A2 FX Plug Play Solar Battery Wallbox Discounter hoymilesms a2 fx datasheet cdn webshopapp shops 294692 files 476879338 ||| Hoymiles **MS-A2** Embrace the sun s bright light**MS-A2** illuminates your world day and night Region: Europe V1.5 20241216 2024 Hoymiles Power Electronics Inc. All rights reserved. sales hoymiles.com Unlock the Potential The first AC-coupled balcony power storage system on the market, seamlessly co... lang:en score:25 filesize: 339.21 K page_count: 4 document date: 2025-03-13



[pdf] User Manual

User Manual RalosThe installation site must be convenient for electrical connection operation and maintenance The surface suitable the weight MSA2 user manualMSA2 manualralos fi 2024 11 MSA2 manual ||| Open Energy for All Region: Global AP040982 REV1.6 User Manual Hoymiles **MS-A2** hoymiles.com Contents 1. Packing List.....1 2. Product Overview..... lang:en score:25 filesize: 2.84 M page_count: 17 document date: 2025-04-30





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Datenblatt Hoymiles MS A2 herunterladen890 800W Balkonkraftwerk Komplettsset mit 2 24kWh Batterie

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Hoymiles **MS-A2** Genieen Sie den hellen Sonnenschein Der**MS-A2** taucht Ihre Welt bei Tag und Nacht in strahlendes Licht Region: Europa V1.5 20241216 2024

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lang:de score:24 filesize: 2.88 M page_count: 4 document date: 2024-12-17



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Datasheet MS A2 EU DE V20240612 Download V20240614 Balkonkraftwerk 880Wp Hoymiles Set mit 2

24kWh LiFePO4 Speicher swissbatt24 ch media 86 da 80 |||

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lang:de score:24 filesize: 1023.53 K page_count: 2 document date: 2024-07-12

[pdf] Warranty

Hoymiles GarantijaHoymiles HMS 2000 4T ONEONHoymiles MS Series Warranty Terms Conditions EU

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Batterijopslag Solarwinkel beHoymiles ONEON638864588451365547 ENV1v1app simpla be companies

3838 product 638864588451365547 ||| ||| Open energy for all Hoymiles MS Series Warranty Terms

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MS-H2 and MS-A2 covered by Hoymiles

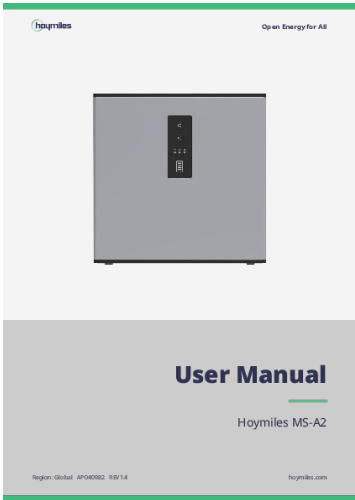
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lang:en score:24 filesize: 97.05 K page_count: 4 document date: 2024-08-29



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Klik hier om de handleiding te bekijkenHoymiles MS A2 thuisbatterij 2 24 kWh Solarkopen

nInstallatiehandleiding Hoymiles A2cdn shopify s files 1 0728 6901 9929 Installatiehandleiding v

1755281507 |||

Open Energy for All User Manual Hoymiles **MS-A2** Region: Global AP040982 REV1.4

hoymiles.com 1. Packing List NOTICE Immediately contact your supplier or distributor

upon noticing any damaged or missing parts. In these instructions, the Hoymiles **MS-A2** is referred to as **MS-A2** for short. Hoym...

lang:en score:24 filesize: 1.85 M page_count: 14 document date: 2025-03-19



[pdf] Datasheet

Datasheet MS A2 EU DE V20240531 Datenblatt Hoymiles Micro Storage 2 kWh T J Capital GmbH
V20240612 v 1718627974 cdn shopify s files 1 0744 6642 7144 |||

Hoymiles **MS-A2** Genießen Sie den hellen Sonnenschein Der**MS-A2** taucht Ihre Welt bei Tag und Nacht in strahlendes Licht Region: Europa V1.3 20240612 2024
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Potenzial erschließen Das erste AC-gekoppelte Balkon-Energiespeichers...
lang:de score:23 filesize: 1023.57 K page_count: 2 document date: 2024-06-12



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Hoymiles MS A2 Shinetech New Energy GmbH 2024 07 25 — From balconies and courtyards to outdoor spaces M delivers clean power wherever you need it Plug Play installation design offers flexibility
Datasheet EU EN V202406 shinetech de |||
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Hoymiles MS A2 2cdn shopify s files 1 0609 9481 4140 Schaltplan 2 v 1754320649 |||
HOYMILES MS A2 SPEICHER Installation in 2 Schritten in nur 7 Sekunden einsatzbereit Schuko-Kabel des Wechselrichters in den Speicher einstecken. Den Speicher an eine Schuko-Steckdose anstecken. ...
lang:en score:22 filesize: 61.78 K page_count: 1 document date: 2025-08-04



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SAP CORE Service User Download MS A2 FX Series Certificate IEC62477 Balkonkraftwerk 880Wp
Hoymiles Set mit 2 24kWh LiFePO4 Speicher swissbatt24 ch media 84 10 37 |||
Seite Page 1 / 2 Zertifikat Certificate Zertifikatsnummer Certificate No.:
Berichtsnummer Report ... Energy Storage system Microinverter Energy Storage
System Modell Type: Bezeichnung Designation: **MS-A2-FX** For Output On-Grd Port
Nominal output apparent power VA : 800 Nominal AC voltage V ...
lang:de score:22 filesize: 1.4 M page_count: 2 document date: 2024-07-25



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Balkonkraftwerk 880Wp Hoymiles Set mit 2 24kWh LiFePO4 Speicher swissbatt24 ch media c9 19 8c |||

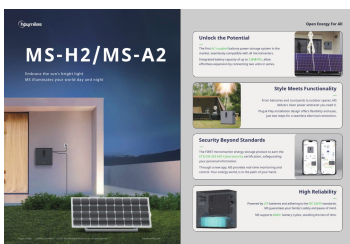
CERTIFICATE of Conformity Registration No.: CL 50627511 0001 Report No.:

18028688 001 Holder: Hoymiles Power Electronics Inc. No.18 Kangjing Road,

Hangzhou, 310015 Zhejiang P.R. China Product: Energy Storage system

Microinverter Energy Storage System Identification: Type designation **MS-A2-F...**

lang:en score:22 filesize: 1.29 M page_count: 1 document date: 2024-04-30



[pdf] Datasheet

Draft V0 6 Datasheet MS A2 H2 Series EU EN V202404 GreenSun Germany Integrated battery capacity

of up to 2 048 Wh allow effortless expansion by connecting two units in series Hoymiles Power Electronics

Inc All greensun germany mediafiles Datenblatt Speicher |||

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lang:en score:22 filesize: 2.13 M page_count: 2 document date: 2024-04-24



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Balkonkraftwerke PV1219 ts 1737375276 cdn tepto de media 38 2c 8f 1727172430 |||

C E R T I F I C A T E of Conformity Registration No.: AK 50641630 0001 Report No.:

CN24C55A 001 ... 109-1:2010 EN 62109-2:2011 EN 62477-1:2012 A11 A1 A12

Identification: Type Designation MS-H2-FX ; **MS-A2-FX** Serial number: Engineering

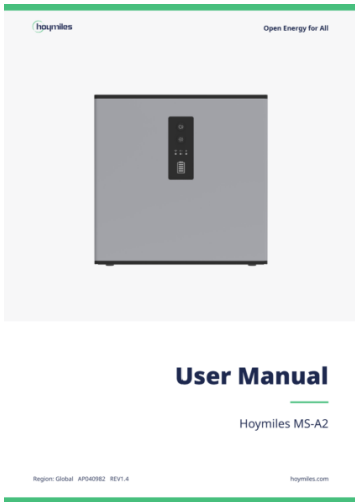
Sample Remark s : 1 Refer to test report CN24C55A 001 for det...

lang:en score:21 filesize: 1.63 M page_count: 2 document date: 2024-08-09



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Hoymiles **MS-A2** Geniet van het stralende licht van de zon**MS-A2** verlicht uw wereld,
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Alle rechten voorbehouden. sales hoymiles.com Open energie voor iedereen
Ontgrendel het potentieel Het eerste AC-gekoppelde energieop...
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User Manual MS A2 Global EN DE FR REV1 4 0719 Untitled Hoymiles Balkonkraftwerkspeicher
Bedienungsanleitung offgridtec media product attachements |||
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lang:en **score:20** filesize: 1.14 M page_count: 2 document date: 2024-05-28



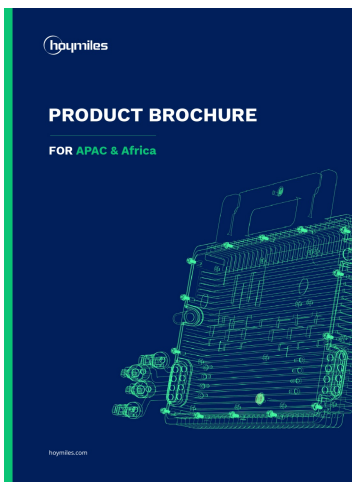
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Hoymiles MS Series Warranty Terms Conditions For 3 февр 2025 r — This policy governs the Exchange Program for series H2 and A2 covered by limited warranty hoymiles ms terms conditions taloon media attachments ||| Open energy for all Hoymiles MS Series Warranty Terms Conditions For European region Only - Administered by Hoymiles Power Electronics Inc. This policy governs the Exchange Program for Hoymiles MS series MS-H2 and **MS-A2** covered by Hoymiles limited warranty the Exchange Program . Parties p... lang:en score:19 filesize: 112.71 K page_count: 4 document date: 2024-08-29



[pdf] Quick Start Guide Borchure

PRODUCT BROCHURE Hoymiles The HYT HV Series is a high performance three phase hybrid inverter with excellent reliability including power classes ranging from 5 0 kW to 12 The ca99d2e41e hoymiles uploadfile 1 202507 ||| PRODUCT BROCHURE FOR APAC Africa hoymiles.com Open Energy For All Bringing smart solar to the en ... ase AC-coupled Inverter 46 HAT-5.0HV / HAT-6.0HV / HAT-8.0HV / HAT-10.0HV-EUG1 Micro Storage 48 **MS-A2** Data Transfer Stick 50 DTS-G1 Battery Low Voltage LB Series 54 LB-5S / LB-10S / LB-15S / L... lang:en score:18 filesize: 11.27 M page_count: 42 document date: 2024-11-25

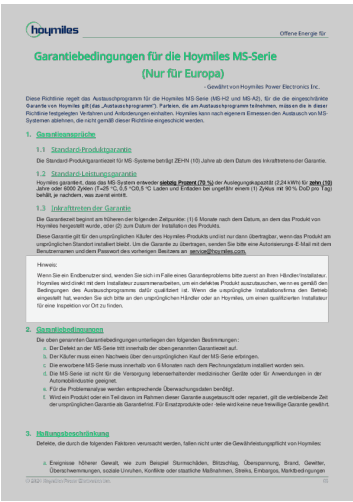


[pdf] Decleration of Conformity

SunSpec Modbus Declaration HOYMILES Zestaw balkonowy 800W Bateria MS A2 2 24kWh zawiera 2*panele 2*konstrukcja 1*bateria 1*mikroinwerter 1*kabel J Point sp z o photovoltaics MODBUS files ecoenergy product 1748 attachments |||

Open Energy for All Declaration of the Manufacturer We, Hoymiles Power Electronics Inc., hereby to state that we will confirm below: For the following HMS series product range: HMS-300-1T, HMS-350-1T, HMS-400-1T, HMS-450-1T, HMS-500-1T, HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HM...

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[pdf] Warranty

HM Garantieinformationen Hoymiles Micro storage MS Series Warranty Terms Conditions EU DE1

hoymiles 2024 09 A2 Condiciones de garantía garantía 2 24 kWh con carga CA y soporte avec charge et support Garantiebedingungen v 1731597986 cdn shopify s files 1 0611 3335 7108 garantíaHoymiles

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800W Rückbox 24kW SpeicherHoymiles 1731597986Hoymiles DE1Garantieerklärung

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Garantieerklärung Balkonkraftwerkspeicher |||

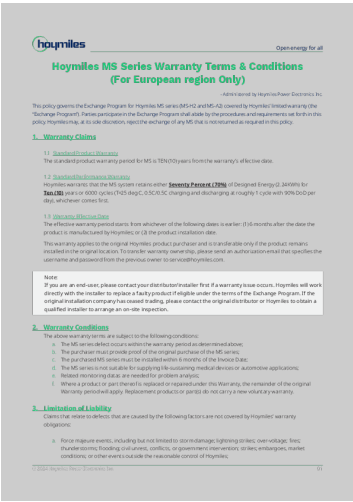
Offene Energie fr alle Garantiebedingungen fr die Hoymiles MS-Serie Nur fr Europa -

Gewhrt von Hoymiles Power Electronics Inc. Diese Richtlinie regelt das

Austauschprogramm fr die Hoymiles MS-Serie MS-H2 und **MS-A2**, fr die die

eingeschränkte Garantie von Hoymiles gilt das „Austauschprogramm . P...

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Electronics Inc 03 Open energy all To request a replacement product you must contact Technical Service

Center aurinkosahkotukku fi 02 |||

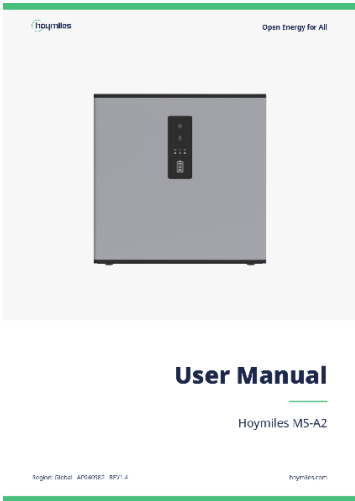
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Balkonkraftwerkspeicher Bedienungsanleitungb2b offgridtec media product attachements Hoymiles Bedienungsanleitung |||

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C E R T I F I C A T E of Conformity Registration No.: AK 50641630 0001 Report No.: CN24C55A 001 ... 109-1:2010 EN 62109-2:2011 EN 62477-1:2012 A11 A1 A12 Identification: Type Designation MS-H2-FX ; **MS-A2**-FX Serial number: Engineering Sample Remark s : 1 Refer to test report CN24C55A 001 for det...

lang:en score:15 filesize: 1.34 M page_count: 2 document date: 2024-08-09