GROWATT SHINELANX

GROWATT Shine LAN X

ETHERNET MONITORING DONGLE USER MANUAL

Model: SHINELANX

1. INTRODUCTION

The GROWATT Shine LAN X is an advanced Ethernet monitoring dongle designed to provide seamless internet connectivity for your Growatt X, XE, or XH series solar photovoltaic (PV) inverters. This device enables real-time data logging and remote monitoring through the intuitive ShinePhone iOS/Android App or the comprehensive Growatt ShineServer portal. It ensures that you can efficiently track your solar energy system's performance from anywhere, at any time.

The Shine LAN X is compatible with a wide range of Growatt inverters, specifically those whose model references end with X, XE, or XH. This includes, but is not limited to, the MIC, MIN, MOD, MID, MAC, and MAX series inverters.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the Growatt Shine LAN X dongle. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the inverter is completely powered off and isolated from the grid before connecting or disconnecting the Shine LAN X dongle.
- Only qualified personnel should perform installation and maintenance.
- Do not expose the device to water, moisture, or extreme temperatures.
- Do not attempt to disassemble or repair the device. Contact qualified service personnel if repair is needed.
- Keep the device away from flammable materials and direct sunlight.
- Verify all connections are secure and correct before restoring power to the inverter.
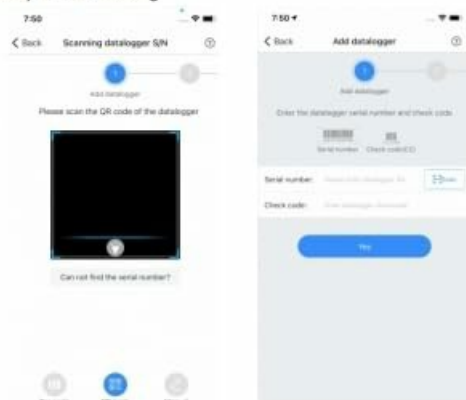
3. PRODUCT OVERVIEW

3.1 Components

Figure 3.1.1: Growatt Shine LAN X Dongle

This image displays the Growatt Shine LAN X dongle, a compact black device with a status indicator light and a reset button on its front face. A QR code is also visible towards the bottom.

Step6. Add datalogger

1. Enter the add datalogger page
2. Scan the serial number or manually enter serial number and verification code
3. Complete the adding

Step7. Check the status of datalogger

1. Log in your account, enter the my plant page, click the "+"to check the datalogger list
2. Edit, configure or delete the datalogger

Note: If the datalogger need to be transfered to another account, you need to delete the datalogger under the original account, then add the datalogger under the new account.

Appendix I. Troubleshooting

1.Indicator Troubleshooting

LED status	Indicate	Troubleshooting
LED off	The USB connection with inverter is error	Replug the datalogger

2.ShineLan-X Button Description

Button operation	Description
Press and hold for 6s	Reset the datalogger and restore the factory settings (factory

Green LED flashes	The communication between ShineLan-X, the inverter and router is normal, but the communication with theserver fails	Check if the router can access the Internet
Blue LED flashes	The communication between ShineLan-X, the inverter, router and server is normal	Normal operating conditions
Green LED light is always on	ShineLan-X failed to communicate with the router	1. Network cable is not connected 2. Restart the router and confirm that the router's automatic IP allocation function is available If using the static IP address, please check whether the IP address is consistent with the network segment set by the router

until the white light is on	the factory settings (factory default is dynamic IP)

Aappendix Ⅱ Datalogger static IP configuration

1. Prepare a router whose DHCP function is turned on, link the ShineLan-X to the router.
2. Enter the router's built-in interface and find the dynamic IP address of the datalogger ShineLan-X, shown as below.

3. Open the browser, enter the dynamic IP address of the datalogger ShineLan-X in the browser address bar, and enter the built-in interface of the datalogger (account: admin, password: admin).

4. Enter the'Network Setting' page, turn off the DHCP enable of the datalogger, and enter the static IP, gateway, mask, DNS. Then click to save.

5. Enter the 'Datalogger Setting' page, enable the reboot function, and click Save. The static IP setting of the datalogger is successful.

Note: If you forget the static IP you have set before, there are two ways to reset the static IP address:

a) Press and hold the reset button of the ShineLan-X until the white LED stays on, then release the button. Afterre storing the factory settings, you can reset the static IP according to Appendix II.
b) The computer and the datalogger ShineLan-X are directly connected through a network cable. Set the computer IP address to 192.168.0.2, the mask is 255.255.255.0, and the gateway is 192.168.0.1, Then open the computer browser and enter 192.168.0.254 in the browser address bar to enter the built-in inter face settings of the datalogger.

GR-UM-280-A-00

Figure 3.1.2: Ethernet Port

This image shows a detailed close-up of the Ethernet port located on the Growatt Shine LAN X dongle, ready for cable connection.

Figure 3.1.3: USB Connector
This image provides a close-up view of the USB connector on the Growatt Shine LAN X dongle, which is used to connect to the inverter.

Figure 3.1.4: USB Connector (Alternate View)
This image offers an alternative close-up perspective of the USB connector on the Growatt Shine LAN X dongle, clearly showing the blue internal tab of a USB 3.0 Type-A port.

3.2 Key Features

Figure 3.2.1: Shine LAN X Features

This image illustrates the Growatt Shine LAN X dongle in a usage scenario, placed near a person working on a laptop. The image highlights the device's main features: direct Ethernet connection, plug-and-play functionality, online monitoring and maintenance capabilities, and integrated memory for up to one month of data storage.

- **Ethernet Direct Connection:** Provides a stable and reliable wired connection to your local network.
- **Plug and Play:** Designed for easy installation and immediate use with compatible Growatt inverters.

- **Online Monitoring and Maintenance:** Enables remote access to inverter data for performance tracking and system diagnostics.

- **Built-in Memory:** Stores up to one month of data, ensuring data continuity even during temporary network outages.

- **Wide Compatibility:** Supports Growatt X, XE, and XH series inverters, including MIC, MIN, MOD, MID, MAC, and MAX models.
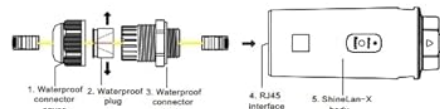
4. SETUP GUIDE

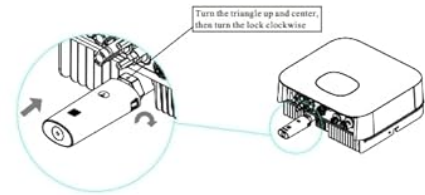Follow these steps to properly install and configure your Growatt Shine LAN X dongle.

Growatt ShineLan-X

Quick Installation Guideline

For more info, please download from http://server.growatt.com

T +86 755 2747 1942   F +86 755 2747 2131

E service@ginverter.com   W www.growatt.com

Step1. Electrical connection

1. Pass the network cable through the following components (1-2-3) from left to right;
2. One side of the network cable is connected to the RJ45 port of the ShineLan-X (the connection is successful until hear a click), and the other side is linked to the router's LAN port;
3. Screw the components (3-2-1) tightly of the terminal to the inverter from right to left in sequence.

4. Rotate the USB cover of the photovoltaic device counterclockwise;
5. Rotate the datalogger locker on the upper, make sure the triangle is on the front side and in the middle;
6. Connect the datalogger to the inverter USB port, make sure the triangle is on the front side, press the locker and rotate clockwise until it is tighten.

Turn the triangle up and center, then turn the lock clockwise

1. Waterproof connector cover   2. Waterproof plug   3. Waterproof connector body   4. RJ45 interface   5. ShineLan-X body

Step2. Turn on the inverter and configure the IP of the datalogger

After the installation of ShineLan-X is completed, turn on the inverter and configure the IP of the datalogger.

A. If the router's DHCP function is turned on, use dynamic IP, no need to configure IP(the new router's DHCP function is turned on by default), skip Step 2;

B. When customers need to use static IP in some public places such as schools and enterprises , configure it as follows:
1. Prepare a router whose DHCP function is turned on,link the ShineLan-X to the datalogger;
2. Enter the router's built-in interface and find the dynamic IP address of the datalogger ShineLan-X, shown as below.

3. Open the browser, enter the dynamic IP address of the datalogger ShineLan-X in the browser address bar, and enter the built-in interface of the datalogger (account: admin,password: admin).

Growatt ShineLan-X Setting Center

- Datalogger State
- Datalogger Setting
- Network Setting
- System Management
- Device State

User Name:
Password:
Login

4. Enter the'Network Setting' page, turn off the DHCP enable of the datalogger, and enter the static IP, gateway, mask, DNS. Then click to save.

5. Enter the 'Datalogger Setting' page, enable the reboot function, and click Save.
Note: If you have forgotten the static IP you have set before, there are two ways to reset the static IP address:
a) Long press the reset button of the datalogger ShineLan-X until all the three LEDs always on, then release the button. Afterrestoring the factory settings, you can reset the static IP according to Step 2.
b) The computer and the datalogger ShineLan-X are directly connected through a network cable. Set the computer IP address to 192.168.0.2, the mask is 255.255.255.0, and the gateway is 192.168.0.1, Then open the computer browser and enter 192.168.0.254 in the browser address bar to enter the built-in interface settings of the datalogger.

Step3. Check connection status

When installing the ShineLan-X for the first time, the blue LED flashes, indicating that ShineLan-X communicates normally with inverter, routers, and servers.

LED flashing status description

Flashing status	Status
All three LEDs are off	The USB connection with inverter is error
Only the red LED flashes	The communication between ShineLan-X and the inverter is normal
Only the green LED flashes	The communication between ShineLan-X and the inverter and router is normal
Only the blue LED flashes	The communication between ShineLan-X and the inverter, router and server is normal

Step4. Register to add a device

Scan the QR code below, or search for "ShinePhone" in Google Store or Apple Store to download and install the APP.
Note: 1. Make sure you have the latest software;
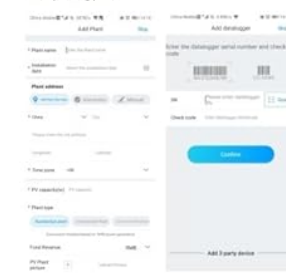2. Please refer to http://server.growatt.com for details.

【Android & iOS】

1. Run ShinePhone, enter the login page, and click "register" to enter the user account registration interface.
Note: The mobile phone is a voucher to retrieve the password and other important functions. Please fill in the real mobile phone number.
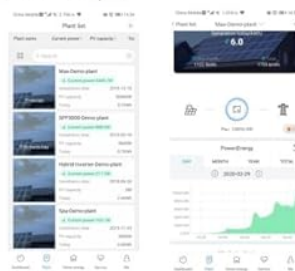
2. After the user account registration is completed, continue to create the plant and add the corresponding datalogger to the corresponding plant.

3. After successful registration as prompted, it will automatically jump to the main interface of the APP.
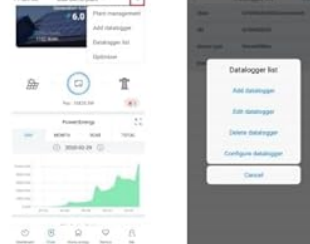
4. Click "Plant" in the lower tab bar to jump to the plant list interface, and click the corresponding plant to view the generation, power and the other parameters of each inverter under each plant.
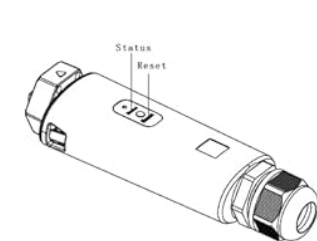
5. If you need to add , view , delete the datalogger or add a plant, please click the "+" in the upper right corner.
Note: If the datalogger needs to change the account monitoring, you need to delete the datalogger under the original account, then add the datalogger under the new account.

Step5. The picture of product
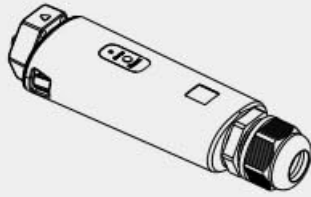
Status
Reset

Appendix: Quick troubleshooting

The status of LED	Working condition	Quick troubleshooting
All three LEDs off	The USB connection with inverter is error	Replug the datalogger
Green LED flashes	The communication between ShineLan-X , the inverter and router is normal, but the communication with the server fails.	Check if the router can access the Internet
Blue LED flashes	The communication between ShineLan-X , the inverter, router and server is normal	Normal operating conditions
Green LED light is always on	ShineLan-X failed to communicate with the router	1. Network cable is not connected; 2. Restart the router and confirm that the router's automatic IP allocation function is available; 3. If using the static IP address, please check whether the IP address is consistent with the network segment set by the router.

ShineLan-X button description

Button operation	Description
Long press the button until the three LEDs always on, then release it	Reset the collector and restore the factory settings (factory default is dynamic IP)

Figure 4.1: Quick Installation Guideline Overview

This image provides a comprehensive quick installation guideline for the Growatt ShineLan-X, detailing electrical connection, IP configuration, app download, device registration, and a product picture. An appendix covers quick troubleshooting for LED status and button descriptions.

Figure 4.2: Configuration Guide Overview

This image presents a detailed configuration guide for the Growatt ShineLan-X, outlining steps for connection, IP configuration, app download, registration, adding a plant, adding the datalogger, and checking the status. An appendix provides troubleshooting information for LED indicators and button descriptions, along with datalogger static IP configuration.

4.1 Step 1: Electrical Connection

1. Ensure your Growatt inverter is powered off and disconnected from any power sources.

2. Locate the USB port on your Growatt inverter. This is typically found at the bottom or side of the inverter.

3. Insert the USB connector of the Shine LAN X dongle firmly into the inverter's USB port.

4. Connect one end of an Ethernet cable to the RJ45 port on the Shine LAN X dongle and the other end to your router or network switch.

5. Secure the components (dongle and Ethernet cable) to the inverter using the provided locking mechanism or screws, if applicable.

6. Once connected, power on your inverter. The LED indicators on the Shine LAN X dongle should illuminate, indicating power and connection status.

4.2 Step 2: Configure the IP of the Datalogger

After installation, you may need to configure the IP address of the datalogger. By default, if your router's DHCP function is enabled, the datalogger will obtain an IP address automatically (Plug and Play). If you require a static IP, refer to the Appendix for detailed instructions.

1. Open a web browser and enter the dynamic IP address of the datalogger Shine LAN X. You can find this IP address from your router's connected devices list or by using network scanning tools.

2. Log in to the datalogger's built-in interface using the default account **admin** and password: **admin**.

3. Navigate to the network settings to configure DHCP or static IP settings as needed.

4.3 Step 3: Download the ShinePhone App

The ShinePhone App is essential for monitoring your inverter. Ensure you download the latest version.

- Scan the QR code below with your smartphone to download the ShinePhone App from the Apple App Store or Google Play Store.

- Alternatively, visit the official Growatt server for app downloads: http://server.growatt.com/app/xml/download_growatt.png.jsp or http://server-cn.growatt.com/app/xml/download_cn.png.jsp.
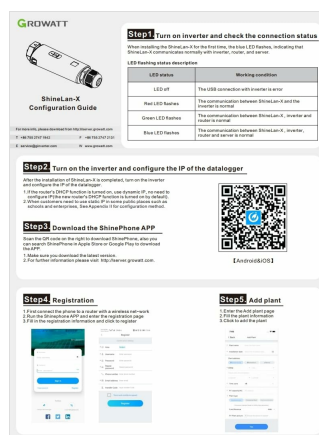

Figure 4.3.1: ShinePhone App QR Code
Scan this QR code to download the ShinePhone App for both Android and iOS devices.

4.4 Step 4: Register a Device / Add Plant

After installing the app, you need to register your account and add your solar plant.

1. Open the ShinePhone App and follow the prompts to create a new account or log in.

2. Navigate to the 'Plant' or 'Device Management' section.

3. Select 'Add Plant' and fill in the required information, such as plant name, capacity, and location.

4.5 Step 5: Add Datalogger

Once your plant is set up, add the Shine LAN X datalogger to link it to your monitoring system.

1. In the app, select 'Add Datalogger' or 'Add Device'.

2. Enter the serial number and verification code of your Shine LAN X dongle. These details are typically found on the device itself or its packaging.

3. Confirm the addition. The datalogger should now be linked to your plant and begin transmitting data.

5. OPERATING

Once the Shine LAN X dongle is successfully installed and configured, you can begin monitoring your solar PV system's performance.

- **ShinePhone App:** Use the ShinePhone App on your iOS or Android device to view real-time data, historical performance, energy generation, and system status. The app provides a user-friendly interface for quick insights.
- **Growatt ShineServer Portal:** For more detailed analysis and management, log in to the Growatt ShineServer web portal (http://server.growatt.com). This platform offers advanced reporting, fault diagnostics, and remote configuration options.
- **Data Logging:** The dongle automatically logs data at 5-minute intervals and stores it for up to one month internally, ensuring no data loss during temporary network interruptions.

6. MAINTENANCE

The Growatt Shine LAN X dongle is designed for low maintenance. Follow these general guidelines to ensure optimal performance:

- **Keep Clean:** Periodically wipe the exterior of the dongle with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners.
- **Check Connections:** Occasionally verify that the USB and Ethernet cables are securely connected to both the dongle and the inverter/router.
- **Firmware Updates:** Ensure your Shine LAN X firmware is up-to-date. Firmware updates are typically managed through the ShineServer portal or ShinePhone App and can improve performance and add new features.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Shine LAN X dongle.

7.1 LED Status Description

LED Status	Indication	Troubleshooting
LED off	The USB connection with the inverter is error.	Replug the datalogger.
Green LED flashes	The communication between Shine LAN X, the inverter and router is normal.	Check if the router can access the internet.
Blue LED flashes	The communication between Shine LAN X, the inverter, router and server is normal.	Normal operating conditions.

LED Status	Indication	Troubleshooting
Green LED light is always on	Shine LAN X failed to communicate with the router.	1. Network cable is not connected. 2. Restart the router and confirm that the DHCP address allocation function is available. 3. If using a static IP, ensure the datalogger's IP address is consistent with the network segment set by the router.

7.2 Shine LAN X Button Description

Button Operation	Description
Long press the button until the white light is on (about 10 seconds)	Reset the datalogger and restore the factory settings (factory default is dynamic IP).

7.3 Datalogger Static IP Configuration (Appendix)

If you need to set a static IP address for your Shine LAN X dongle, follow these steps:

1. Prepare a router whose DHCP function is turned on. Link the Shine LAN X to the router.
2. Enter the router's built-in interface and find the dynamic IP address of the datalogger Shine LAN X.
3. Open the browser, enter the dynamic IP address of the datalogger (e.g., 192.168.0.254) to access the built-in interface of the datalogger (account: **admin**, password: **admin**).
4. Enter the 'Network Setting' page, turn off the DHCP enable of the datalogger, and enter the static IP, gateway, mask, DNS. Then click to save.
5. Enter the 'Datalogger Setting' page, enable the reboot function, and then click 'Reboot'. The configuration of static IP is successful.

Note: If you forget the static IP you have set before, there are two methods to restore it to the default dynamic IP:

- a) Press and hold the reset button of the Shine LAN X until the white light appears (approximately 10 seconds) to restore the factory settings.
- b) If the datalogger is connected to the inverter, you can change your computer's IP address to 192.168.0.2, the mask is 255.255.255.0, and the gateway is 192.168.0.1. Then enter 192.168.0.254 in the browser address bar to enter the built-in interface settings of the datalogger.

8. SPECIFICATIONS

Figure 8.1: ShineLan-X Datasheet
This image presents the technical datasheet for the Growatt ShineLan-X, detailing hardware parameters, application parameters, and general data.

Parameter	Value
Hardware Parameters	

Parameter	Value
Data Interface	USB
Nominal Voltage	5V (±5%)
Nominal Current	400mA
Nominal Power	2W (MAX.3W)
Display	LED
Application Parameters	
Supported Server	ShineServer
Inverter Communication	USB (Modbus RTU protocol)
Server Communication	TCP (Modbus TCP protocol)
Ethernet Interface Speed	10Mbps
Max. Communication Range	100m (direct connection)
Configuration Type	APP configuration
Data Transmission Interval	5 Minutes
Default Server URL	server.growatt.com
General Data	
Dimensions (L/W/H)	152 / 47 / 88 mm
Weight	84g
Operating Temperature Range	-20°C ... +50°C
Environmental Protection Rating	IP65
Certifications	CE, RoHS
Product Information	
Manufacturer	ASTRA CONTROL
Model Number	SHINELANX
ASIN	B0D33S3326
Date First Available	May 1, 2024

9. WARRANTY & SUPPORT

For technical assistance, warranty inquiries, or further information regarding your Growatt Shine LAN X dongle, please contact Growatt support.

- **Technical Support Email:** service.nl@ginverter.com
- **Technical Support Phone:** +31 (0) 85 040 9967

- **Official Website:**

Please have your product model number (SHINELANX) and serial number ready when contacting support to expedite assistance.

Related Documents

	Growatt SEM-XA-R & ShineMaster-X: C&I Solar Retrofit Solution White Paper Explore Growatt's SEM-XA-R and ShineMaster-X solutions for seamless C&I solar PV system retrofitting. Enhance existing solar infrastructure with cost-effective, scalable upgrades and centralized monitoring.
	Growatt Introduction and Warranty Procedures for the UK and Ireland Market This document provides an overview of Growatt's warranty procedures, product warranty periods, scope, and claim process for the UK and Ireland market. It details customer and installer responsibilities, contact information, and online claim submission guidelines.
	Growatt MIN 2500~6000TL-X Solar Inverter Datasheet and Specifications Detailed datasheet and specifications for the Growatt MIN 2500~6000TL-X series of solar inverters, including key features, technical data, and performance metrics.
	GROWATT SPH-UP Series Hybrid Inverter Installation Manual Comprehensive installation manual for GROWATT SPH-UP series hybrid inverters, detailing setup, safety, operation, and troubleshooting for professional installers.

Documents - GROWATT – SHINELANX

[pdf] User Manual Guide

Installationsvejledning VVS EkspertenShinelan X Så send en mail til Growatt service på dk@growatt med Manual Dataloggervvs eksperten dk amfile file 6591 product 61068 |||

Machine Translated by Google Installationsvejledning til dataloggere og overvgning 05/04/2023 Version 0.1.4 Growatt Ny Energi B.V. Machine Translated by Google Introduktion Denne installationsvejledning er beregnet til at hjlpe dig med at konfigurere Growatt-dataloggeren. I denne guide finder d...
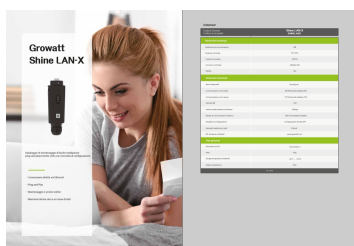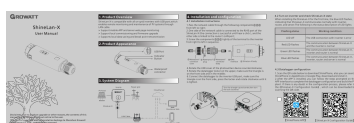
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[pdf] User Manual Instructions Diagram

ShineLan X   2022 11 16 cdr   5 ore fa — User Manual is Disclaimer Due to product upgrade or other reasons the contents of this manual will be updated without notice user alternergy co uk mpattachments file viewonline id 4524 5015 |||

ShineLan-X User Manual 1. Product Overview ShineLan-X is compatible with all on-grid inverters with USB port,which enables remote monitoring and maintenance of PV systems through LAN cable. Support mobile APP and server web page monitoring Support local commissioning and firmware upgrade Support...

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Growatt SHINELAN X sett 2022 Preview Downloads European Distributor IT 1 growatt tech shared files |||

Growatt Shine LAN-X Data logger di monitoraggio di facile in stallazione plug-and-play tramite LAN , ... t Dati generali Dimensioni L/A/P Peso Range temperatura ambiente Grado di protezione Shine LAN-X **SHINELANX** USB 5V 5 400mA 2W MAX:3W LED ShineServer USB Protocollo Modbus RTU TCP Protocollo ...

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[pdf] User Manual

a návod k obsluze Instalace MOBLER cz měničů MID TL3 XH vyráběných společností Shenzhen Growatt New Energy Co Ltd Třífázové měniče 11 30KTL3 jsou vybaveny dvěma nezávislými vstupy BAT mid 30ktl3 xh user manual solsol vz web unlocked mobler related files |||

Sthnout manul Growatt New Energy Instalace a nvod k obsluze *Tento peklad slouz pouze pro Vasi referenci. V ppad jakhokoli rozporu mezi rznmi jazykovmi verzemi tohoto dokumentu je rozhodujc anglick verze. 1 Poznmky k tto prucce 2 Bezpecnost 3 Popis produktu 4 Kontrola po dodn 5 Instalace 6 Ele...

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