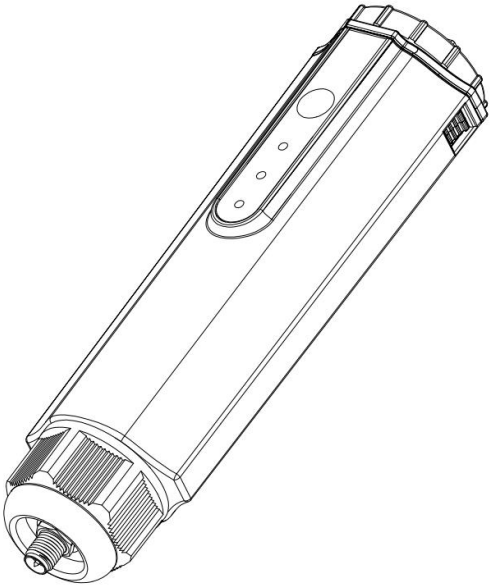
HYXiPOWER

User Manual

HYX-DCS-WL/4G-A

DATA COMMUNICATION STICK



Carefully read this inverter user instructions before using.
Read and save these instructions.

© 2023 ZHEJIANG HYXI TECHNOLOGY CO., LTD. All rights reserved.

This document cannot be copied fully or partially, transferred, or distributed in any form without the prior written permission of ZHEJIANG HYXI TECHNOLOGY CO., LTD (hereinafter referred to as "HYXIPOWER").

TRADEMARKS

and other HYXIPOWER trademarks are the trademarks or registered trademarks of HYXIPOWER All other trademarks mentioned herein are the properties of their respective owners.

CONTENTS

1. Safety Instructions 1

2. Product Introduction 2

2.1 Product Description 2

2.1.1 Product Highlights 2

2.2 Appearance Introduction 2

2.2.1 Introduction of Indicator Lights and Key Functions 3

2.3 Network Application 3

3. Installation 4

3.1 Install the smart communication stick (WIFI module) 4

3.2 Install the smart communication stick (4G module) 4

4. Human-Computer Interaction 6

4.1 Installing the App 6

4.2 APP User manual 6

4.3 System debugging 6

5. Troubleshooting 7

6. Appendix 8

6.1 Technical Parameter 8

6.2 Contact Information 9

1. Safety Instructions

In order to ensure the safety of the user's person and property when using the product and to use the product more efficiently and optimally, the manual provides relevant, the following symbols are used to highlight the information.

The following is a list of symbols that may be used in this manual and should be read carefully for better use.

DANGER

- This symbol indicates a hazardous condition that may cause a risk of fatal electric shock, serious personal injury or fire.

CAUTION

- This symbol indicates that in order to avoid potential safety hazards, the corresponding instructions must be strictly followed.

NOTICE

- This symbol indicates that the operator should pay careful attention and fully understand before performing the relevant operation.

Symbol	Description	Symbol	Description
	Do not dispose of the inverter as household waste.		Compliant with FCC standards
	The symbol indicates DC voltage.	IP65	Degrees of protection against solid foreign objects and water IP65.

This product should be used with the following in mind:

- Before installation, ensure that all power flow to the inverter is disconnected.
- The site should be chosen away from flammable and explosive materials.
- It should not be forcibly disassembled or scrapped.
- Children should be supervised to ensure they do not play with
- Please note that only professional personnel should install or replace the DCS Smart Communication Stick.
- Do not attempt to repair the DCS Smart Stick without the permission of Huayuxin, as this may affect the warranty of the device. If there is damage, please send the product back to the Hyxi distributor for repair or replacement.
- Please read all instructions and warnings in this manual carefully before using this equipment.
- Please use the device in accordance with the installation or use instructions in this document, otherwise it may result in personal injury or equipment damage.

2. Product Introduction

2.1 Product Description

- HYXIPOWER Data communication stick（DCS）is equipped with HYXIPOWER inverter for use, and the inverter's power generation data is transmitted to HYXIPOWER monitoring platform through WiFi, Ethernet, and 4G.HYXIPOWER DCS comes in two versions: WLAN and 4G.

2.1.1 Product Highlights

Convenient installation

- Plug-and-play, easy to install.

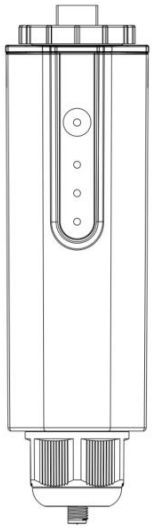
Safe and Reliable

- Data transmission is encrypted to protect data security.
- Supports intermittent transmission to ensure no data loss.

Intelligent Operation and Maintenance

- Support 4G，Ethernet，WiFi.
- Support local and remote software upgrade, parameter configuration, and alarm fault analysis.

2.2 Appearance Introduction



补一张天线的图

2.2.1 Introduction of Indicator Lights and Key Functions

Indicator	Status	Description
POWER	ON	Power ON
	OFF	Power OFF
NET	Solid Green	Connected to the server
	Flashing	Connecting to the server
	OFF	Disconnected from the server
COM.	Solid Green	Normal communication with inverter
	Flashing	Communicating with the inverter
	OFF	Communication with inverter failed

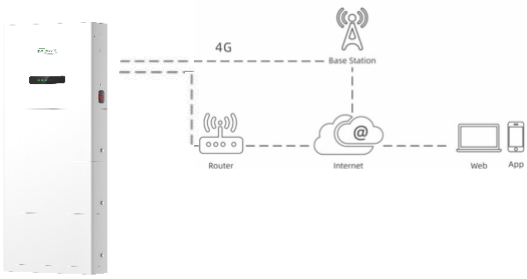
*** Reset button:**

Press 2 times to restart, Press 3 times to enable local configuration (AP mode), Press 4 times to restore factory settings (Within 1 second between pressing).

2.3 Network Application

The DCS can monitor the operation information in the PV system in real time and upload this information to the backend.

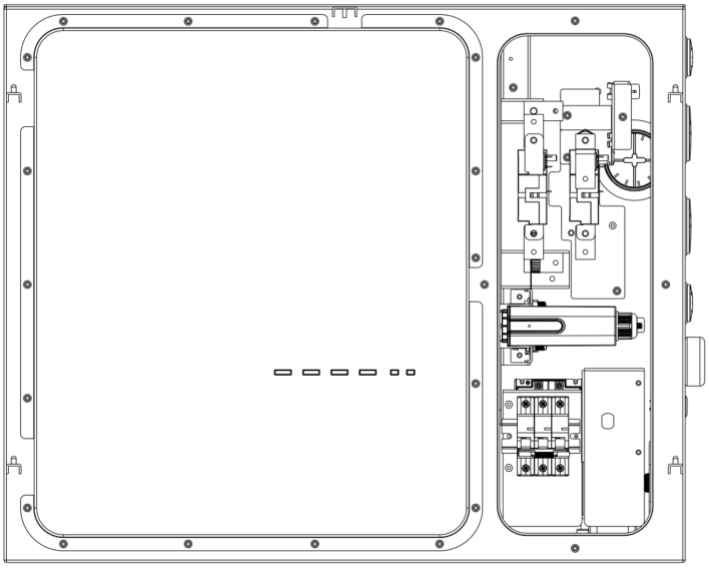
The DCS can be directly connected to the Hyxi Smart Cloud Platform via Ethernet, wifi, 4G as shown in the figure below.



3. Installation

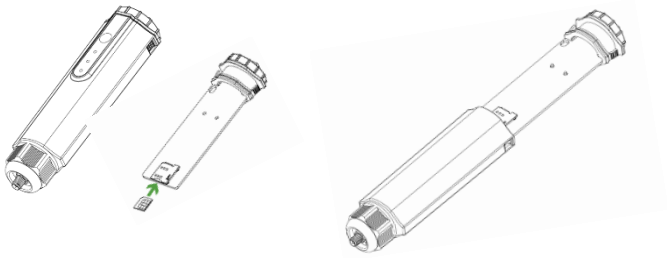
3.1 Install the smart communication stick (WIFI module)

- Step 1: Insert DCS into the DONGLE terminal and tighten it to ensure it is secure
- Step 2: Connecting the tail end of the DCS to the head of the antenna.



3.2 Install the smart communication stick (4G module)

- Step 1: Remove the protective cover of DCS and insert the SIM card.
- Step 2: Install the waterproof cover of DCS.
- Step 3: Insert DCS into the DONGLE terminal and tighten it to ensure it is secure.
- Step 4: Connecting the tail end of the DCS to the head of the antenna.



* Step 3 and step 4 are the same as the DCS wifi module

4. Human-Computer Interaction

4.1 Installing the App

Method 1

Download and install the App through the following application stores:

- App Store (iOS).
- Google App market (Android, users other than mainland China ones).

Method 2

Scan the following QR code to download and install the App according to the prompt information:

4.2 APP User manual

For more information on using the HYXiPower APP, please refer to the user manual "HYXiPower APP".

4.3 System debugging

For system configuration and debugging, please refer to the user manual "HYXipower Local Debugging APP".

5. Troubleshooting

Code	Description	Solution
1	Unable to search for WiFi signal	1. Check and confirm that the inverter is powered on and running, the WiFi module is firmly installed, and the power light is on. 2、Try to move your smartphone close to the inverter to confirm whether the signal can be successfully searched, signal can be successfully searched.
2	Unable to search home router's wireless network	1、Refresh the router list. 2、Try to move the router closer to the inverter, make sure there is no metal object between them between them. 3、Confirm that the router supports WiFi 2.4GHz band and the wireless signal covers to the location of the inverter.
3	Unable to connect home router's wireless network	1、Confirm that the access password of the router is correct, and pay attention to distinguish between upper and lower case letters. 2、If the user has modified the router's wireless network name or access password, please reconnect to the router's wireless network. Please reconnect to the router's wireless network. 3、Try to move the router closer to the inverter to make sure the distance between them is within the valid range, within the effective range. 4、If there are multiple routers in the home, make sure each router wireless network name is not the same. If the same wireless network name exists, please change it.
4	Cannot view any operational data	1. Check the NET indicator light on the DCS module. If the indicator light is not on, please check if the router can connect to the network normally, if the 4G card is plugged in properly, and if the 4G card is not overloaded.

6. Appendix

6.1 Technical Parameter

Product Model	HYX-DCS-WL-A	HYX-DCS-4G-A
General Data		
Data Acquisition Interval	5 mins	
Connection interface	USB	
Installation	10M / 100M Ethernet	/
Enthernet Interface	Plug-and-play	Plug-and-play
Indicator	LED	LED
Dimensions (W*H*D)	153.5*41*33.6	
Weight	72.5g	76g
Enclosure Rating	IP65	IP65
Power consumption	1W	2W
Input	5V/1A	5V/1A
Wireless Parameter		
Supported standards & frequencies	802.11b/g/n	4G: LTE-FDD / LTE-TDD 3G: WCDMA 2.4G SRD (Only RX)
Environment		
Operating Ambient Temperature	- 30 to +65℃	
Relative humidity range	0 ~ 100%RH, Non-condensing	
Storage temperature range	-40 to +70℃	

6.2 Contact Information

If you have any questions about this product, please contact us.
In order to provide you with faster and better after-sales service, we need your assistance in providing the following information.

- Equipment model: _____
- Serial number of the device: _____
- Fault code / name: _____
- A brief description of the fault phenomenon: _____

_____

_____

_____

Version: UM_HYX-DCS-4G(WL)-A_V1.0-202411_EN

The manual is subject to change without notice while the product is being improved.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ISED Warning

This device contains licence-exempt transmitter(s)/receiver(s) that complywith Innovation, Science and Economic Development Canada's licence-exempt RsS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference thatmay cause undesired operation ofthe device.

This equipment complies with Innovation, Science and Economic Canada's radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux flux RsS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:
1. Cet appareil ne peut pas causer d'interférences.
2. Ce dispositif doit accepter toute interférence, y compris celle qui peut provoquer un fonctionnement indésirable du dispositif.

Cet équipement est conforme aux limites d'exposition au rayonnement d'innovation, sciences et développement économique Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Zhejiang Hyxi Technology Co., Ltd.

Room 216, Block A, Building 1, No. 57 Jiang'er Road, Changhe Street,
Binjiang District, Hangzhou, Zhejiang Province, China
www.hyxipower.com

support@hyxipower.com