

Dyness WIFI-Stick

User Manual



Statement of Law

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Web URL: <u>http://www.dyness-tech.com/</u>

Please note that the product can be modified without prior notice.

Revision History

Revision NO.	Revision Date	Revision Reason
1.0	2022.11.16	First Published
2.0	2023.10.08	Product Modification

Safety Precautions



1. Please do not put the WIFI Stick into water or fire, in case of explosion or any other situation that might endanger your life.

2. Please connect wires properly while installation.

3. Please do not stab, hit, trample or strike the WIFI Stick in any other way.

4. Please use dry powder extinguisher to put out the flame when encountering a fire hazard, liquid extinguisher could result in the risk of secondary disaster.

5. For your safety, please do not arbitrarily dismantle any component in any circumstances unless a specialist or an authorized one from our company, device breakdown due to improper operation will not be covered under warranty.



1. We have strict inspection to ensure the quality when products are shipped out, however, please contact us if case bulging or another abnormal phenomenon.

2. For your safety, device shall be ground connected properly before normal use.

3. To assure the proper use please make sure parameters among the relevant device are compatible.

4. Please do not mixed-use WIFI Sticks from different manufacturers, different types and models, as well as old and new together.

5. Ambient and storage method could impact the life span and product reliability, please consider the operation environment abundantly to make sure device works in proper condition.

Preface

Manual description

The Wi-Fi Stick, also known as the serial Wi-Fi Stick, belongs to the Transmission layer of the Internet of Things, and its function is to convert the serial port or TTL level into an embedded Stick that complies with wi-fi wireless network communication standards. It is equipped with ieEE802.11B.G.N protocol stack and TCP/IP protocol stack. Traditional hardware devices embedded with Wi-Fi Sticks can directly use Wi-Fi to connect to the Internet, which is an important part of the implementation of wireless smart home, M2M and other Internet of Things applications, and is an important component of intelligent hardware.

This platform is the third generation photovoltaic monitoring operation and maintenance platform, through which you can manage the power station more conveniently. This operation guide will guide you to log in your account, create a power station, add equipment, and authorize users, so that you can get started as soon as possible.

This document describes in detail the basic structure, parameters, installation, and operation of the device.

Dyness WIFI Stick User Manual

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1 Introduction

1.1 Brief Introduction

Dyness wifi Stick System is a very convenient product. The addition of WiFi System makes the battery more intelligent. The users can monitor the battery data through Dyness Smart Ess APP anytime and anywhere, which is very convenient.

1.2 Product Properties

The WIFI-Stick System's features as below:

- •Built-in low power KM4 MCU, can also be used as application processor
- Frequency 100 MHZ, Operating voltage: 4.5V-5.5V
- •Wi-Fi / Bluetooth connectivity
- •802.11B/G/N20, channel 1-14@2.4GHz (CH1-11forUS/CA, CH1-13for EU/CN)
- support Bluetooth 4.2 Low Energy
- ●+20dBm output power in 802.11b mode
- •SmartConfig (for Android and IOS devices)
- •External IPEX FPC antenna
- ●CE,FCC certification

1.3 Product identity definition

	Be careful with your actions and be aware of the dangers
	Read the user manual before using
X	The WIFI Systems cannot be put into the garbage can and must be professionally recycled
E S	After the WIFI System life is terminated, the WIFI System can continue to be used after it recycled by the professional recycling organization and do not discard it at will
CE	This WIFI Systems product meets European directive requirements
FC	This WIFI Systems product meets USA directive requirements

2 Product Specification

2.1 Size

Table2-1 WIFI-Stick performance parameter









2.2 Performance Parameter

Tablez-2 will -Stick performance para	
Nominal Voltage	5V
Connection Type	Wi-Fi/Bluetooth
Protocol	802.11 B/G/N20
Channel	1-14@2.4GHz (CH1-11 for US/CA, CH1-13 for EU/CN)
Output Power	+20dBm

Table2-2 WIFI-Stick performance parameter

2.3 Interface Definition

WIFI-Stick product panel interface configuration and function. This section details the interface functions of the front panel of the device.

2.3.1 Figure 2-3.1 WIFI-Stick Front Panel of battery Stick



After connecting the acquisition rod to the equipment, check the status of COM light, NET light and STAT light and whether there is data on the platform.

When the router is connected to the network normally, the normal operation status of the collection rod after power on:

1.COM light is steady on and blinking alternately, and the collection rod is connected to the device successfully

2.NET light is steady on after the collection rod is powered on (the server connection is successful)

3.STAT light is flashing (collection rod works normally)

ID	Meaning of LED	Status Description						
		1. The light is always on: the collection rod and						
		the equipment are connected.						
	Communication status	2. The lamp is off: the connection between the						
СОМ	between collector and	collecting rod and the equipment fails.						
	equipment	3. The lamp is on for 1s/off for 1s (slow						
		flashing): the acquisition rod is communicating						
		with the equipment.						
		1. The lamp is off: the router connection failed.						
		2. Lights on for 1s/lights off for 1s (slo						
	Communication	flashing): the router is connected successfully.						
NET	between collector and	3. The light is always on: the server connection						
	router state	is successful.						
		4. The lamp is on for 100ms/off for 100ms						
		(flash): in the fast distribution network.						
		1. The lamp is off: the collection rod works						
		abnormally.						
	Working state of	2. The light is on for 1s/off for 1s (slow flashing):						
STAT	collector	the collecting rod works normally.						
		3. The lamp is on for 100ms/off for 100ms						
		(flash): the collection rod returns to the factory						
		value State.						

2.3.2 Communication port Pin Definition



Foot position	Definition
PIN1	5V
PIN2	RXD
PIN3	TXD
PIN4	GND

3 Installation and Configuration

3.1 Ready for installation

3.1.1 Environmental requirements

- Working temperature: $-20^{\circ}C \sim +85^{\circ}C$
- Storage temperature: $-10^{\circ}C \sim +40^{\circ}C$
- Relative humidity: 5%~85% RH
- Elevation: no more than 4000m
- Operating environment: Indoor installation, sites avoid the sun and no wind, no conductive dust and corrosive gas.
- And the following conditions are met:Installation location should be away from the sea to avoid brine and high humidity environment;The ground is flat and level;There is no flammable explosive near to the installation places;The optimal ambient temperature is 15~30°C.
- Keep away from dust and messy zones.

3.1.2 Equipment preparation

Equipment that may be used are shown in table 3-1:

Table 3-1

Name
Dyness battery (with WiFi function)
WiFi Stick
mobile phone (Dyness Smart Ess app has been downloaded)
WiFi (2.4GHz)

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Equipment connection 3.2

3.2.1 connection preparation

Download the Dyness Smart Ess App from the App Store(ios) or Scan QR code(Android).



Register after the APP is installed, click" Sign Up", enter the registration page.





Follow the prompts to complete the registration process

1. Fill in your email

Please follow the prompts to enter your email account correctly and send and fill in the verification code;

2. Improve account information

If this account is the first time to register the APP client, you need to improve the account information; Please enter your name and password, and confirm;

3. Improve user information

Please follow the prompts to select the user time zone; Telephone number optional; The organization code is **EC03B0**. Please check the box in the Agreement column to indicate that you have agreed to the Service Agreement and the Privacy Agreement;

4. Registration is successful

Click "Complete and log in to the client" button, jump back to the login interface, enter the account password to log in.

3.2.2 steps of connection

APP:

1. Create Plants

Please login account and click 'Plants', and click the '···' at the top right to select 'Create Plants' to enter the power station creation page.



2.Supplement new power station information

Please complete the power station information according to the prompts. The more complete the information is, the better it will be for you to manage the power station.

a.Improve basic information Please follow the prompts to improve the basic information of the power station: the name, location and time zone of the power station. When completing the basic information on the power station creation page, if you do not create it near the power station, you can click the "Location" column to find the power station location, and the system will automatically match the rest of the information for you.

When creating a power station, The Business Type is usually "BESS", the APP client will automatically locate your current location. If you create a power station nearby, you do not need to change the relevant information. (Tip: Zooming in on the map will show the current location of the WiFi Stick, click the red mark on the map to confirm the location, and then click "Finish".)



b.system information

Please improve the system information of the power station according to the actual situation of the user's new power station: power station type, grid-connected type, installed capacity, etc.

Tip: The APP user terminal will display the layout of the power station according to the grid-connected type, and analyze the power station data according to the installed capacity. Please fill in the information after confirmation.

c.other information

Improve the remaining information according to the actual situation of the user. The more complete the input information, the better the management of the power station; The remaining information contains optional information or you can leave it blank.

3. Creation completed

After all the above steps are completed, click "Finish" in the upper right corner to complete the creation of the power station.

Plant Information Finish Business Type BESS > Plant Type Residential > Plant Name Dyness Lab Grid Connection Type Full Quota > Corrid Connection Type Full Quota > Plant Photos 0 > Build Date Optional > Grurency CNY > Battery Installed Capacity (kW) Qot Plant Visitor Optional > Contact Optional > Phone Optional >	09:35		al 🗢 🔳
Business Type BESS > Plant Type Residential > Plant Name Dyness Lab Grid Connection Type Full Quota > Coration 215124, Wuzhong Qu, Suzhou > Plant Photos 0 > Build Date Optional > KWh Income Optional > Total Cost Optional > Battery Installed Capacity (kWh) Q0 Plant Visitor Optional > Plant Visitor Optional > Plant Visitor Optional > Plant Qurent User Type > Plant Optional > Optional > Plant Optional > Optional > Plant Qurent Optional >	<	Plant Informati	on Finis
Plant Type Residential > Plant Name Dyness Lab Grid Connection Type Full Quota > Location 215124, Wuzhong Qu, Suzhou > Plant Photos 0 > Plant Photos 0 > Build Date Optional > Total Cost Optional Currency CNY > Battery Installed Capacity (kWh) 20 Plant Owner User S719762 > Plant Visitor Optional Contact Optional	Business 1	Гуре	BESS >
Plant Name Dyness Lab Grid Connection Type Full Quota > Location 215124, Wuzhong Qu, Suzhou > Plant Photos 0 > Build Date Optional > KWh Income Optional > Total Cost Optional > Gurrency CNY > Battery Installed Capacity (kWh) 20 Plant Owner User ST19762 > Plant Visitor Optional > Contact Optional >	Plant Type	2	Residential >
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Plant Visitor Optional > Contact Optional Phone Optional	Plant Own	er Use	er 87199762 >
Contact Optional Phone Optional	Plant Visit	or	Optional >
Phone Optional	Contact		Optional
	Phone		Optional

4. Add Device

Click the "Add collector" button below the power station, scan the QR code of the device to add, or enter the serial number to add, after the correct input of the serial number, the collector will be displayed as successfully added. **Tip: Click "Confirm" to jump directly to the distribution network interface, see 3.2.3 below.**

10:14	ա 🗢 🔳		10:27	al 🗢 🔳
BESS			BE	ss
Q Find my plant				
All(1) Online(0)	Fault(0) Offline(1)		All(1) Online(0)	Fault(0) Offline(1)
Dyness Lab 215124, Wuzhong Qu, Suzho	u Shi, Jiangsu, 🔨	_	Dyness Lab 215124, Wuzhong Qu, Su	izhou Shi, Jiangsu, 💙
Add Colle	ctor			
	usari, amuunis, s			
			The collector was c	reated successfully
			Con	firm
Plants Tickets Overview	Events Me		Car	ncel

WEB:

1. Create Plants

Login URL:https://server.dyness-tech.com/,Login account,and click 'Plants' - 'New Plant' to creat new plant.

(Select the creation page of the plant according to the actual business needs)

	mic Benefits Online Plas white Na The model Reaction HARg subject NA Hour	ts D Total Plants 2							
Part Device GP land Overview C Prod Device Overview Device Overview Prod Device Overview Device Overview Prod Device Overview Device Overview Prod Prod Device Overview Prod Device Overview Device Overview	mic Benefits Online Plan ander MAX Ten Ben Mehodien NAX Rg dudger: NA Hour	tts O Total Plants: 2							
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2.Improve the information of new plant

Please complete the information of the power station according to the prompts. The ones with asterisks are required, and the more complete the other information is, the better it will be for you to manage the power station.

Dyness Smart	Dashboard / Plants / BESS			New Plant X							
🕸 Dashboard	Dastboard 0.0255	EPlant Oven	iew C				Basic Information	2 Lecation	(3) Contact information	(4) Photograph	
di Plants —	Device Overview	Bi Idin Ofci				Pusiness Time			* Diant Turne		
III PVS		Real-time Po	wer	Battery Charg	e & Discharge	Dusiness type			r iaia type		
ar bess		. 0	Power: N/A Total Capacity: 0.00 kV/h	₿ B	Daily Charge, N/A Daily Discharge, N Total Charge, N/A	0ESS			Residential		
III HESS					IOUR DESCRIPTION IN	Plant Name					
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		Plant List	Plant Map Plant Chart			Grid Connect Tune			Build Data		
W Events		All (2)	Online (0) Fault (0) Offline (2)			Grid Connect Type			Duni Duni		
alt Report		Denie best 1				Full Quota			Please enter the plant	build date	
-						Income per kWh		Total Cost		Currency	
Remote		Status ::	Plant Name/Address 😄	Owner	ES Capacity ::					CAN	
👍 Organization -		Office	P DYNESSENDI O BHHS	User 719820980			*	0		CNT	
		Office	C Dyness 9 (12) IB #HINT: IP #EX75(12) 708	92B	0.00 kWh	• ES Capacity (kWh)	+				
		3			-						
										Cancel	Next >

a.Basic information

Please improve the power station system information according to the actual situation of the power station that the user wants to create: power station type, power station name, grid connection type, installed capacity, and station construction date. TIP:The web client will display the power station layout according to the grid connection type, and analyze the power station data according to the installed capacity, so please fill in after confirmation.

b.Other information

Please improve the remaining information according to the actual situation of the user. The more complete the information you input, the better you can manage the power station; The currency unit in the income information will affect the income calculation of the system. Please confirm. c.Position setting

After completing the power station information, directly click Next in the lower right corner. To set the location, you can enter the location to search directly. d.Add Visitors

Enter the guest mailbox to add a guest. In order to better handle after-sales problems, please fill in the organization code: EC03B0

📾 Dashboard	Dashboard PVS					⊘	3	(4)	
dh Plants 🗠	Device Overview	BPlant Overview C		andreatives Contra			Contact into	maron Photog	rapri	
■ PVS		Plant List Plant Map Plant Chart	Urga	anization Code	CUISO V X38818688	4次(第2111)1月9天公司				
BESS		All (0) Online (0) Fault (0) Offine (0)	* Ow	Please Inpu	t email address			~	Confirm	
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ult Report 🗠			10	073821474@qq.com		Add				
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							111111			
								Cano	el C Previous	Next >

All information is completed, click Submit, and the power station is created successfully.

3.Add Device

As shown in the figure below, please click "New Collector" on the detail page of the power station.

Dyness Smart	🔟 Dashboard / Plants / DESS						् 💠 🛛 My Schot	15 合 My Fa	vorites 🌐 English 🛞 🚬			
Dashboard	Danhavit Pr5 • 1 1251 HESS - Periodian											
di Planta o	Plant Overview	Plast Overview C + New Plast										
	Device Overview	Real-time Power		Battery Charge & Discharge		Environmental & Economic Benefits			Online Plants			
III PVS			Power: N/A	مم	Daily Charge: N/A		**	Trees Planted: N/A Tree			0	
IIII BESS		0	Total Capacity: 0.00 ki//h	Ş	Daily Discharge: N/A Total Charge: N/A Total Discharge: N/A		\$	CO ₂ Emission Reduction: N Light Reduction: N/A Hour	4(A Kg		Total Plants: 0	
III HESS												
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Dyness Smart	E Dashboard / Pla	ants / Plant Details				Q :: ● My tickets ☆ My F	avorites 🌐 English 🛞 🖕		
B Dashboard	Control POS - RESS - FESS -								
⊿ Plants ^	Daahhoard								
E PVS	Devices	Real-time Power	Battery Charge &	Battery Charge & Discharge Income of the day					
⊞ BESS	Alerts	Power: N/A Total Capacity: N/A		Daily Charge: NIA Daily Discharge: NIA	2 0.00 CNY	∧ 140			
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	Profile								
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		weather			Environmental 8	Economic Benefits			
		-CH Weather	Sunrise & Sunset	Wind direction N/A	<u>A</u> e	Trees Planted CO ₂ Emission I N/A Tree CO ₂ M/A Ke	Reduction		
		0: Temperature	C Humidity		A	Total Income			
		N/A ~ N/A	KO NA	D N/A	\$	N/A CNY V/A Hour			

Select the equipment model in the pop-up dialog box and correctly fill in the equipment serial number you want to add. After confirmation, submit it.





3.2.3 WiFi Stick distribution network

1.Insert the Stick into the battery COM port as shown in the figure, Press and hold the white reset button for 1-2 seconds, then release it, and the net light flashes in the distribution network mode.



2.Open the APP and switch to the "Me" page after login,Click "Config Network", select the wireless network, enter the password, and scan the SN number of the collector to be distributed.





3. As shown in the figure, the distribution network connection step will also jump out of the APP when the WiFi Stick is networked.



4.Click the "Start Config" button to configure the network, and wait for the configuration to succeed.



4 Serial Number

The SN code of the WIFI Stick is shown in the figure below.



5 Troubleshooting

Table4-1 WIFI-Stick troubleshootin

Trouble	Indicate	Troubleshooting			
COM OFF SATA Slow flash	Abnormal communication of WIFI Stick	Check whether the connection between the collection rod and the equipment is abnormal, and re plug the collection rod.			
COM ON NET OFF SATA Slow flash	Abnormal communication between acquisition rod and route	1.Check whether the wireless network is configured 2.Router signal problem. It is recommended to improve the routing signal strength			
COM ON NET Slow flash SATA Slow flash	The connection between the collection rod and the route is normal, but the connection with the remote server is abnormal	 1.Check whether the router can access the Internet 2.Check the router settings to see if connections are restricted 3.Contact after-sales to solve the problem 			
COM OFF NET OFF SATA OFF	Abnormal power supply	 Check the connection status and plug it again. Contact after-sales to solve the problem 			

If you have any technical help or question, please contact Dyness in time.



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