

# 晟高中&英文安装指导 Installation Guide for SUNGO (CN & EN)

英文安装指导	P01~P15
English Installation Guide.	P01~P15





# 2-in-1 Rapid Shutdown Devices SUNGO RSDi-2 & Data Gateway SUNGO GTC Quick Installation Guide

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The SUNGO RSDi-2 is a rapid shutdown with data monitoring, matching the data gateway GTC, with a module-level rapid shutdown function that monitors the operating parameters of the PV modules and reports the operating status of the PV modules.



**Connection Diagram** 

# **2 SUNGO RSDi-2 Product Installation**

1. Install the RSDi-2 by snapping the RSDi-2 upward onto the PV module frame.



2. Connect IN+ and IN- of RSDi-2 to the positive and negative terminals of the first and second PV module junction boxes respectively, and so on.



3. Connect two adjacent RSDi-2 output ports in series and then connect them near to the inverters with a homemade DC extension cable.



### **3 SUNGO GTC Installation**

#### Step 1. Data gateway connectivity

1. Install the GTC near the inverter.

2. Connect the OUT+ of the last rapid shutdown to the PV+ of the inverter.

3. Connect the OUT- of the first rapid shutdown through the magnetic ring of the GTC to the PV- of the inverter.

4. After confirming that the connection is correct GTC connects the MCB and then connects it to the AC.



The GTC itself is IP67 waterproof and can be used without a distribution cabinet.

The AC input line is connected to the AC power using the L16-2 waterproof connector.

-Check that the structural mounts are secure and that all screws are tightened.

-Check that all cables are connected with the correct polarity and that the connections are firm and reliable to ensure that there are no short circuits.

-Confirm that the system is connected correctly, the inverter DC switch is ON, and the inverter is turned on.

Note: One GTC can take up to 50 RSDi-2.

#### Step 2. Connecting the data gateway to a power source

Connect the data gateway to 90~264V AC power supply. Ensure that the power indicator green light is always on, and the running indicator green light is also always on. Check whether the inverter is working normally.

### Step 3. GTC status indication

![](_page_4_Picture_1.jpeg)

Four permanently illuminated status indicators from left to right (1, 2, 3, 4)

#### Note: Indicator status indicates

1, 2, 4 Indicator status schematic: Indicates normally lit Indicates extinguished Indicates blinking 3 Indicator status schematic: Indicates normally lit Indicates extinguished Indicates blinking									
None of the four indicator lights are lit Wrong or faulty circuit connection	1 on 2 off 3 on 4 on Turn off the RSD, the network is connected normally								
1, 2 on 3, 4 off Start RSD, network not connected	1 on 2 blinking 3 blinking 4 blinking Search RSD self-test								
1, 2 on 3 off 4 on Start the RSD, the network is connected normally	1 on 2Blinking 3on 4 on or off Search RSD self-test successful								
1 on 2 off 3 on 4 off RSD off, network not connected	1 on 2 off 3 blinking 4 on or off Search RSD self-test failed								

### **Step 4. GTC Entry Rapid Shutdown Device**

The GTC needs to enter the address of the rapid shutdown devices it manages, otherwise it can't communicate and upload the rapid shutdown device's data normally. There are two ways to enter rapid shutdown devices: automatic and manual. When there is only one GTC in the field, you can use the automatic, but if there are more than one GTC in the field, you must execute the manual.

#### Auto Entry Rapid Shutdown Device (GTC=1 pcs)

Press the middle button of GTC to let the Running light always on, let the RSD light go out, after 5 seconds and then long press the button, GTC enters into the automatic recording mode, release the button, the indicator light 234 flashes back and forth waiting for about 10 minutes the Running indicator light flashes to indicate the success of the automatic recording, press the button again to the Running indicator light is always on, the rapid shutdown device is working normally. If the indicator light 3 blinking means that this automatic recording failed please check the line and re-execute the step, if three times are not successful please contact the relevant technical personnel.

#### Manual Entry Rapid Shutdown Device (GTC>1 pcs)

Note: If the automatic entry function is used, it will cause conflicts by duplicating the respective managed rapid shutdown devices in multiple GTCs in the field, and you only need to re-execute the operation of manually entering. (Manual entry of rapid shutdown devices is for recording the field rapid shutdown devices into different GTCs)

#### I. Process

Recommended application process:

- 1. First power up the GTC.
- 2. Use the USB to RS485 cable to connect GTC and the computer
- 3. Select the corresponding serial port

4. Read MAC Addr and Version, if normal display, represents the current connection is normal, otherwise check whether the cable is properly connected.

5. Enter the RSDi-2 code into the List list, and then click Write to write it to GTC; there are two ways to enter the code as follows

(1)Through Import button, recognize the selected picture to import.

2 Enter the number manually through the keyboard, and note that each number is separated by a comma.

6. Monitor the current status of the rapid shutdown through To Monitor. **II. Wiring** 

Use USB to RS485 to connect the GTC to the computer, the connection is shown below:

![](_page_5_Figure_13.jpeg)

#### **III. Description**

1. Select the corresponding serial port

GT/GTC IOPT Mo Base	nitor	COM1 COM2 COM4		
MAC Addr :	N/A		Write	Read
Version :	N/A			Read
DateTime :	N/A		Write	Read
Number :	2	import	ad write Clear	To Monitor
	230727000	001,230727000002		

After success, the green circle is displayed as follows

COMA  ON OFF PA UNITE Read Read
COM4 - ON OFF PA
Write Read
Write Read
Write Read Read
Read
Write Read
Import Read Write Clear To Monitor
Import Read Write Clear To Monitor
00001,230727000002
C

© Sungo Energy reserves all rights.

#### 2. Description of GTC functions

		COM4 🔹 🧭 ON OFF PAS
T/GTC IOPT Mo	nitor	
Base		$\frown$
MAC Addr :	112233445	566 Write Read
Version :	00010073,	125,V1.2.5,Jul 10 2024_18:47:56
DateTime :	2024-07-15	5_15:27:09 Write Read
iOPT Config		
Number :	2	Import Read Write Clear To Monitor
List :	230727000	001,230727000002

1)MAC Addr:

Click Read to read the address of GTC, and click Write to write the address in the left input box to GTC.

2 Version

Click Read to read the software version number of GTC.

③DateTime

Click Read to read the time of GTC, and click Write to write the system time into GTC. @RSDi-2 Config - Import

Click Import to import the RSDi-2 code through the image, as follows

Click Import to import the recognized codes into the List box.

利开				Path:	D:\wangl\D	ocuments\20	0240711134	121.jpg						
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RDBallastinfo				2 81										Ш
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> 🗕 Data (D:)				4 6										
	打开(Q)	R	ň	Find : 2419 2419 2419 2419	15 03002311,24 03002285,24 03002302,24 03002337,24	1903002312,2 1903002288,2 1903002289,2 1903002295,2	41903002284 4190300230 4190300231 4190300229	9,241903002; 4,241903002; 3,241903002; 7,241903002;	293.24190300 284.24190300 283.24190300 296.24190300	02300,241903 02158,241903 02290,241903 02156,241903	002157,2419 002336,2419 002294,2419 002291,2419	03002292,241 03002286,241 03002303,241 03002305,241	903002149,24 903002307,24 903002310,24 903002306	190300; 190300 190300
						10	Cancel					Import		

5 RSDi-2 Config - Read

Click Read to read the RSDi-2 list of the current GTC configuration.

6 RSDi-2 Config - Write

Click Write to write the RSDi-2 list to GTC.

7 RSDi-2 Config - Clear

Click Clear to delete all the RSDi-2 in GTC.

8 RSDi-2 Config - To Monitor

Click Monitor to display the RSDi-2 in List on the Monitor page.

3. Read single RSDi-2 working parameters function description

	Uppitor	COM4 • ON OFF PASS
lase		
MAC Addr :	230727000001	Read
Comm :	N/A	IN Voltage : N/A
State :	N/A	Out Voltage : N/A
Temp :	N/A	Out Current : N/A
Error :	N/A	Out Power: N/A
statistics		
SKU :	N/A	Version : N/A
Run Time :	N/A	Recv Cnt: N/A
On Time :	N/A	Offline Time : N/A
Engery :	N/A	Offline Cnt: N/A
Recv Time :	N/A	

Input the RSDi-2 number you need to read, click Read to read its current status.

Comm: communication status, Online stands for online, Offline stands for offline.

State: current state, ON working, OFF closed.

Temp: current temperature, Celsius degrees

Error: current fault, Normal stands for normal.

IN Voltage: input voltage

Out Voltage: Output Voltage

Out Current: Output Current

Out Power: Output Power

SKU: Product Model

Run Time: Run Time

On Time: Working Time

Engery: Power Generation

Recv Time: Receive Time

4. Monitor Function Description

![](_page_7_Picture_17.jpeg)

Click Start to start monitoring, the software will refresh the status of RSDi-2 in List regularly.

# 4.1 GTC distribution network (APP1.0 instructions for use)

# Step 1. Download APP and register account

![](_page_8_Picture_2.jpeg)

#### iSungo-Android

![](_page_8_Picture_4.jpeg)

Scan the QR code to download APP

![](_page_8_Picture_6.jpeg)

Open the APP to register an account

# Step 3. Fill in the power station information

下午3:04   36.9K/s 🞯 🐔	\$ M M @ 🗃
← Plant	t Information Finish
Business Type	photovoltaic system >
Plant type	Household use >
Plant name	Please type the plant name
Grid connection type	Full access to the Int $\geq$
Power plant location	×
Plant photos	0 >
Build Date	Optional >
kWh income	Optional
Total cost (ten thous	and) Optional
Currency	CNY >
PV Capacity (kWp)	Please enter the installatio
Plant owner	王二毛 >
Plant visitor	Optional >
Contact	Optional
Contact number	Optional

# Step 2. Creation of PV power plants

下午3:03   12.1K/s 它	i 🐔	\$ 3at 3at	<b>R</b> 🔊
	PVS		
Q Search	2	Business	Туре
All(3) O	nline(1)	Creata Di	t
新昌电站 La Primavera, V 2023-12-11	/ichada, 992008, Ci	olombia	×
晟高电站 Jiangsu, Peopl 2023-08-10	e's Republic of Chir	na	~
SUNGO Plan 名骏百盛 Ming 2023-11-02	n <b>t</b> Jun Auto Service C	Center, 星…	~
2023-11-02			
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	has reached botto	m, 3 in all.	
	has reached botto	m, 3 in all.	Ø

Click on the top right corner to create a power station

#### Step 4. Sweeping Code Collection Data Gateway

![](_page_8_Picture_14.jpeg)

WIFI Serial Number:

![](_page_8_Picture_16.jpeg)

Example of QR code on the left side of GTC

Click the arrow on the right side of the power station, scroll down, and click 'Add Collector.' Then, scan the WIFI serial number on the left side of the Data Gateway GTC by using the QR Code.

### **Step 5. GTC WIFI Distribution Network**

![](_page_9_Picture_1.jpeg)

Just follow the instructed process to show the successful distribution of the network.

# Step 6. Optimizer(RSD) Status View

下午3:51   10.9K/s 🗇 🖇 📬	M 🕱 🗊	下午3:10   0.0K/s 🕱	\$ "al "al 🍣 🍅	下午3:10   18.1K/s 〇	* 311 311 2 💷
PVS		← Optimizer	Details	← Optim	izer Details
Q, Search		Basic Information		Basic Information	
All(3) Online(1) Warning(0) 新昌电站	Offline(2)	Controller MAC Address: Q FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	uick Switch: lose	Controller Sn: R07E7A08790A044B-C	Optimizer Mac Address: TL 240403000099
2023-12-11		Number Of Optimizers: Ro 99 2.	eal-Time Power: . <b>50</b> w	Current Serial Number: 99	Input Voltage: 49.8 v
最高电站 Jiangsu, People's Republic of China 2023-08-10	~	Cumulative Total Electricity:		Output Voltage: 49.8 v	Output Current: 0.0 A
SUNGO Plant 고 名骏百盛 Ming Jun Auto Service Center, 로… 2023-11-02	~	2404020202001		Output Power: 2.5 w	Product Temperature: 25.9 °C
R07E7A08790A044B	^	240403000001	> >	Total Running Time: 17.11 h	Normal Working Hours: 15.99 h
Optimization Controller R07E7A08790A044B-CTL	>	240403000003	*	Accumulated Power: 118.00 wh Type:	Working Condition: Open
GT Collect R07E781D0A0715BA	~	240403000004	>	3	112
	~	240403000005	> >	Historical data 2024-01-31 Preferences	Day Month Year Total
SS Logger R07E670000240001	~	240403000007	<b>&gt;</b>		
Add Logger		240403000008	>	40 -	
Plants Tickets Overview Events	(D) My	24040300009	>	20 -	
		2			3

After successful grid distribution, click on the arrow to the right of the power station project until the optimizer controller appears, then click on the optimizer controller, then click on the Optimizer Code to view the optimizer details(RSD details).

# Step 7. Check the status of the power station

下午3:11   12.7K/s 🗇		* 311 311 😤 🎟
	Overview	
Total Power	SUNGO P 88 Today 80.0	Layout Edit
2.40 W	wh 🛱	Favorite Delete Force refresh
Monthly 44.37 kWh	yearly 44.37 kWh	1.48 мwb
Power Energy 2024-01-31	Day Mo	nth Year Total
	No results found	
Plants Tickets	Gverview	Fvents My

Click on APP OVERVIEW, then open the drop-down menu in the upper right corner of the page. Click on the layout to see the status.

After clicking Layout, the status of the power plant is displayed in several states as shown below.

上午11:43   7.8K/s 🕱	*21 21 2 10	上午11:43   7.8K/s 🞯	* 31 31 9 00	上午11:43   7.8K/s 🗇	*31 31 2 00
← SUNGO	Plant		0 Plant	← SUNG	GO Plant
< 2023-11-07		< 2023-11-07		< 2023-11-07	C
470.4 465.7 471. W W W (1,1) (1,2) (1,3	9. 465.4. 465.7 W W ). (1,4). (1,5).	• 470.4 465.7 47 W W V (1,1) (1,2) (1	1.9. 465.4 465.7 W W (1.4) (1.5)	470.4 465.7 4 W W (1.1) (1.2) (1	71.9 465.4 465.7 W W W 1,3) (1,4) (1,5)
467.6 466.2 470. W W W (2,1) (2,2) (2,3	8 4486.2 470.5 W W ) (2.4) (2.5)	● ● 467.6 466.2 47 ₩ ₩ ₩ (2,1) (2,2) (2	0 8 486.2 470.5 W W (2.4) (2.4) (2.5)	467.6 466.2 4 W W (2,1) (2,2) (1	70,8 486.2 470.5 W W W 2,3) (2,4) (2,5)
465.7 473.3 466. W W W (3,1) (3,2) (3,3	5 484.7 482.8 W W ) (3.4) (3.5)	• 465.7 473.3 46 W W (3,1) (3,2) (3	6 5 484.7 482.8 W W 3.3) (3.4) (3.5)	465.7 473.3 4 W W (3,1) (3,2) (3	56,5 484,7 482,8 W W W 3,3) (3,4) (3,5)
482.2 487.2 465. W W W (4.1) (4.2) (4.3	3. 465.7 W 469 W ) (4,4) (4,5)	• 482.2 W W (4,1) (4,2) (4	5.3 465.7 W W 469 W 3) (4.4)	482.2 487.2 4 W W (4.1) (4.2) (4	55.3. 465.7. 469 W W 4,3) (4.4) (4.5)
0 —	11:40	0 —	11:40	0 —	11:40
		2			3

State of affairs	Clarification
Figure 1 - Green circle in the upper right corner	Rapid shutdown is running fine
Figure 2 - Gray circle in the upper right corner	Rapid shutdown is offline, please check that the SN and location information is correct and then search the device again!
Figure 3 - Red circle in the upper right corner	Rapid shutdown failure, need to replace rapid shutdown

### 4.2 GTC distribution network (APP2.0 instructions for use)

D: 4.1 %.1 7 7 (1)

# Step 1. Download APP and register account

09:38

![](_page_11_Picture_2.jpeg)

#### iSungo-Android

![](_page_11_Picture_4.jpeg)

 English
 Welcome
 Sungo
 Username/Email
 demo@abc.com
 Password
 Password
 Password
 Inave read and agree to the User Agreement and Privacy Policy.
 Login
 Forgot Password?

#### Step 2. Creation of PV power plants

10:21	B: 4: 1 2: 1 4: 4	<b></b>
	Create Plant	
		€

Scan the QR code to download APP

Open the APP to register an account

~

# Step 3. Filling in power plant information

PVS	
1 45	>
Name of the plant	
Please enter the na	m…
ocation	
Please select the lo the plant	ocation of
Plant Type	
Commercial and In	dustrial … >
Commercial and In Grid Connection Typ	dustrial ··· >

Click to create a power station

# Step 4. Scanning the data collection gateway

![](_page_11_Picture_14.jpeg)

WIFI Serial Number: XXXXXXXXXXXXXXXXXXX

![](_page_11_Picture_16.jpeg)

Example of QR code on the left side of GTC

Just fill in the information according to your own power station

Click the drop-down menu in the upper right corner, click "Add Logger", and scan the QR code of the WIFI serial number on the left side face of the Data Gateway GTC

# **Step 5. GTC WIFI distribution network**

10:40 🖾	<b>6 6 1 1 1 1 1 1 1 1 1 1</b>	10:41 회 🕮 🖏 🕫 🖲	10:41 🖾	1 42 1 52 1 4 1 5 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5	10:41 회	D: 40 150 1	r 7: 60	10:41 🖾	D) ** *	al 🐔 🕈 💷
• V	Nuxi Power Sation	← Config Network Add I	Device +	Wi-Fi Select	÷ (	Configuration in prog	ress	← c	Config Network Re	sults
2024-12-	① Create Plant	Prepare for conf	ig Wi	-Fi Select	Co	nfiguration	in	Cor	nfig Netwo	ork
	Modify Plant	network	Select	t Wi-Fi and enter the	pro	ogress		Res	ults	
- 30	名 Add Logger	Please select the device to be	passw	lord	Pleas	se wait a moment		Please	view the results of	of the
	Config Network	networked						device	for config netwo	ĸ
	前 Delete Plant	1. Slide left to remove the devi	ce	2.46 Only	_ (	) 🝙	(H)			
11 M	Ill Device List	2. Gray unselectable devices					•	🛜 R07	E8546921C00BD	
	Plant vistor	indicate that the device may n be in the config state	ot Wi-Fi	Name	🗟 R0	7E8546921C00BD	⊃60 s			Success
		3. Devices that are not in the	<u></u>	SGDQ" Chang		Configuration in	n progress			
Production		triggered to be in the network		Password required						
Today 5.56 kWh This Year 1.20 MWh	This Month 154.76 kWh Lifetime 1.20 MWh	중 R07E8546921C00BD	Wi-Fi	Password ()						
Social Contr Green file Overview	ribution 11 88 A tory Layout Me	Start Configuration		Start Configuration		Cancel			Done	
	1	2		3		4			5	

First, click on the drop-down menu in the upper right corner of the "Overview" page, and then click on "Configuring Network". Operate according to the indicated process. It will be okay as long as the successful network configuration is displayed

# Step 6. Optimizer(RSD) Details

10:40 🖾 🕷	¥80; °n ™n ≑ C0	10:42 🖾	■: <sup>40</sup> / <sub>101</sub> <sup>50</sup> / <sub>101</sub> • * (1)	10:42 🖾	Di tint sont ≑. ♥	0	10:42 🖾	<b>0</b> ; %,	9 <sub>011</sub> 7 9 🕕	10:42 🖾	<b>3</b> ; 4;,,	90 ÷ \$	
Wuxi Pow	ver Sation	÷	Devices	÷	Logger Detail	=	← Optim	nizer Gateway	Detail 🗮	← Optimiz	er Gateway	Detail	Ξ
2024-12- 🕀 Cre	eate Plant	Q Sea	rch Serial Number		8								
🥧 🔘 Mo	dify Plant	Lannay	Davias Status	R 2024-	07E8546921C00BD -12-06 10:42 (Asia/Shanghai	)	R07E8 2024-12	3546921C00B -06 10:42 (Asia/S	D-CTL ihanghai)	R07E85 2024-12-0	46921C00E	BD-CTL Shanghai)	
음 Ad	d Logger nfia Network	Logger	Device Status •	Basic Info	rmation Sub Device	es	Basic Inform	nation Sub	Devices	Basic Informa	<mark>tion</mark> Sub	Devices	
Del	lete Plant	Logger: R( Wuxi Power:	07E8546921C00BD Sation	RSW-1-10	0001		Basic Inform	nation					
- III De	vice List	2024-12-06 1	0:41 (Asia/Shanghai)	Type of Co	ommunication:		Controller N	IAC Address:		Sub Devices			
Pla	nt Vistor	That	' s it, 1 items in total	Wi-Fi			2428070003	205		 2433050006	21 •		>
				Transmiss	ion Interval:		Quick Switc	h:					
Production				500 5			Open			2433050006	22 •		>
Today Th 5.56 kWh 15	is Month 54.76 kWh			Signal Stre 66 %	ength:		Number Of 20	Optimizers:		2433050004	51 •		>
This Year Lif	letime			Sub Devic	es		Real-Time F	ower:		 2433050004	52 •		>
1.20 MWh 1.	20 MWh			Optimizer C	Controller		2.52 <sub>kW</sub>				71		
				R07E8546	921C00BD-CTL •	>	Cumulative	Total Electrici	ty:	2433030007	/1 •		
Social Contribution							1.21 <sub>MWh</sub>			2433050007	72 •		>
Overview History	EB A Layout Me						Realtime	fii History	Ç Events	Realtime	fíí History	لُ Events	
			•										
			(2)		3			(4)			5		

1.Click on the drop-down menu in the upper right corner on the "Overview" page, and then click on "Device List"

2.Click on the "Logger" column to enter the collector details page

3.Click on the "Optimizer Controller" under "Logger Details" to enter the "Optimizer Gateway Detail" page

4.Click on "Sub Devices" and you can see the optimizer serial number

5.Click on the arrow on the right side of the optimizer serial number to enter the "Optimizer Detail(RSD Detail)" page

![](_page_13_Picture_0.jpeg)

6.The device information will be displayed on the "Optimizer Detail(RSD Detail)" page 7.Click on the "History" icon at the bottom to view the graphical display of the "Optimizer Detail(RSD Detail)" (showing input voltage, output voltage, temperature, output current and output power)

#### Step 7. Observation of the status of the power station

09:12	State and and State	10:44 🖾	0	<sup>1</sup> <sup>40</sup> <sub>cut</sub> <sup>50</sup> <sub>cut</sub> ⊽ ♥ ①	10:45 🖾		Di tan Sat 🕫 a	6 🖽	10:45 📾		Di tan San 😴	T. 🔝	10:45 🖾		i 40an 90an ≠ 155 (	830
← • Wuxi P	ower Station	=	Wuxi Power S	Sation		Wuxi Pov	ver Sation			Wuxi Pow	ver Sation			Wuxi Power	Sation	
2024-10-30 17	7:36 (Asia/Shanghai)	Date	Month Y	ear Lifetim		< 2024-	-12-06 >			2024-	12-06			< 2024-12-	-06 >	
·* (	0.00 W	Peak P	2024-12-	06 🔉 🖉			• 141 W	A*	W	w Constant	■ 141 W	A*		0 W	141 W	
		-			129.10 W	128.00 W	129.60 W	126.10 W	129.10 W	128.00 W	129.60 W	126 O	137.90 W	SN: 2433050 Coordinate: 8 Angle: 0°	00771-1 ,155	() )
Production					125.30 W	124.30 W	121.70 W	120.50 W	125.30 w	124.30 W	121.70	120.50 W	129.10 W	Voltage: 39.4 Current: 3.5 A Power: 137.9	v v	R.
Today 23.08 kWh	This Month 7.16 MWh	00:00	10:00	20:00	141.10	122.60	105.80	29	10:40 W 6000	Hidden (	• Powe	er: 0.00w	10:40 w 6000	Production: 2	99 Wh	0.00w
This Year 82.39 MWh	Lifetime 82.39 MWh	Peak Pow 5.10 kV	ver V		w	w	w	0	4000 2000		Ņ		4000 2000		A	
Social Contribut	ion					Display	Curves	^	0 20:00	01:00	06:00	11:00	0 20:0	0 01:00 0	میر 6:00 11:0	0
Overview History	Layout Me	Overview	History	BB A Layout Me	Overview	iii History	88 Layout	A Me	G Overview	<b>ííí</b> History	00 Layout	А <sub>Me</sub>	Overview	fiil History	80 Layout	А <sub>Me</sub>
	1		2			3				4				5		

1.Return to the "Overview" page and you can see the basic information about the power generation of the power station

2.Click on "History" on the right side of the "Overview" in the APP and you can see the peak power of the power station

3.Click on "Layout" on the right side of "History" in the APP and you can see the status of the photovoltaic modules

4.Click on "Display Curves" and you can see the power curve of the modules 5.Long-press on the "Photovoltaic Module Graph" and the detailed information of the modules will be displayed

# **Step 8: Layout modifications**

![](_page_14_Figure_1.jpeg)

![](_page_14_Figure_2.jpeg)

Click on the small icon here to modify the layout

Click on the small
icon here. There will
be a dotted grid to
facilitate the layout

![](_page_14_Figure_5.jpeg)

![](_page_14_Picture_6.jpeg)

Click on "Edit"

You can modify the angle of the components. Save it after the modification is completed

# **Other functions**

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2024-1	Create Plant			E-mail		0	User 243	14296	Swi	th Perspective	0	Search fo	r plant name	
	Modify Plant			🖻 demo	@abc.com	A	31083624	125@qq.com	Switch	ing between different user	D	10-		
	Add Logger								user ex	perience	PV	/5*	All Plan	5*
	Config Network				Save	⇔ Sv	vitch Perspe	ective >			-	• Wuxi P	ower Sation	
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	네 Device List					<mark>은</mark> U:	ser Profile	>	e	l am a manufacturer, distributor, installer		China Mob	ile 中国移动, 苏州	新城…
	A Plant Vistor					A 14	adifu Dagau	uard >		or professional		That's it, 1	items in total	
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Add visitor's email address

Switch perspectives, that of professional consultants and end users

All the above steps are operated based on end users

#### **Global Headquarters**

SUNGO Energy Technology (Jiangsu) Co., Ltd. Add: Unit 01, Floor 1, NO.179 Suhong West Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, China

#### **Europe Headquarters**

SUNGO Energy Technology B.V. Add: Hoofdweg-Noord 9T, 2913LB Nieuwerkerk aan den IJssel, The Netherlands

#### **Optimizer&Energy Storage Production base**

KONKA&SUNGO Smart Energy (Zhejiang) Co., Ltd. Add: Building 3#, Small and Micro Industrial Park, No. 69 Xingmei Avenue, Chengtan Street, Xinchang County, Shaoxing City, Zhejiang Province, China

#### Sungo Energy UK

Add: 60 Windsor Avenue, London SW19 2RR, United Kingdom

#### **Sungo Energy Japan**

SungoEnergy株式会社 Add: 4-16-5-206 Sekimae, Musashino City, Tokyo

#### Sungo Energy USA

SUNGO ENERGY TECHNOLOGY INC. Add: 5900 Balcones Drive, STE 100 Austin TX 78731

Web: www.sungoess.com E-mail: sales@sungoess.com Global Headquarters Tel:+86 (0)512 6512 2036 Europe Headquarters Tel:+31 (0)10 307 21 68 SUNGO Energy UK Tel:+44 (0) 330 122 6559 After-sales e-mail: after-sales@sungoess.com

![](_page_15_Picture_13.jpeg)

![](_page_15_Picture_14.jpeg)

![](_page_15_Picture_15.jpeg)

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![](_page_16_Picture_0.jpeg)

# 一拖二快速关断器SUNGO RSDi-2 & 数据网关SUNGO GTC快速安装指南

文档版本:SUNGO-RSDi-2&GTC<sup>™</sup>-V1-2024 CN 发布日期:2024.7

SUNGO RSDi-2是一种带数据监控的快速关断器,匹配数据网关GTC,具有组件级快速关断功能,可以监测PV组件的工作参数,上报组件的工作状态。

![](_page_16_Figure_5.jpeg)

系统接线图

#### 2 SUNGO RSDi-2产品安装

1. 安装RSDi-2,将 RSDi-2 向上卡入光伏组件边框上。

![](_page_17_Figure_2.jpeg)

2. 将 RSDi-2 的 IN+、IN-分别连接第一块和第二块光伏组件接线盒的正负极接线端,以此类推。

![](_page_17_Figure_4.jpeg)

3. 将两个相邻 RSDi-2 的输出端口串联起来,然后用自制的直流延长线连接到逆变器附近。

![](_page_17_Figure_6.jpeg)

#### 3 SUNGO GTC安装

# 步骤1. 数据网关连线

- 1.将GTC安装到逆变器附近。
- 2. 将最后一个关断器的OUT+连接到逆变器的PV+。
- 3. 将第一个关断器的OUT-穿过GTC的磁环再连接到逆变器的PV-。
- 4. 确认连接无误后GTC连接微型断路器再连接到市电。

![](_page_18_Figure_6.jpeg)

- ·GTC本身具有IP67防水,可以不使用电柜箱,AC输入线使用L16-2防水连接器接入市电。
- ·检查结构安装件是否牢固,所有螺丝是否拧紧。
- ·检查所有线缆连接极性是否正确,连接是否牢固可靠,确保无短路。
- ·确认系统连接无误,逆变器DC开关置于ON档,逆变器开机。

说明:一个GTC最大可带50个RSDi-2。

#### 步骤2. 数据网关供电

将数据网关GTC接到AC 90~264V市电电源。Power指示灯绿灯常亮,Running指示灯绿灯常亮, 查看逆变器是否正常工作。

#### 步骤3:GTC状态指示

![](_page_19_Picture_1.jpeg)

指示灯状态:

	1、2、4指示灯状态示意:●表示	示常亮 ●表示	示熄灭 ●表示闪烁
	3指示灯状态示意:●表示	○ 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	示熄灭 ●表示闪烁
	四个指示灯都不亮 电路连接错误或者故障	•••	1亮 2灭 3亮 4亮 关断关断器,网络正常连接
•••	1、2亮 3、4灭 启动关断器,网络未连接	• • • •	1亮 2闪烁 3闪烁 4闪烁 搜索关断器自检
	1、2亮 3灭 4亮 启动关断器,网络正常连接	• • •	1亮 2闪烁 3灭 4灭或亮 搜索关断器自检成功
• • • •	1亮 2灭 3亮 4灭 关断关断器,网络未连接	••••	1亮 2灭 3闪烁 4灭或亮 搜索关断器自检失败

# 步骤4.GTC录入关断器

GTC中需要录入所管理的关断器的地址,否则无法正常通信并上传关断器的数据。录入关断器分别有自动和手动两种方式,当现场只有1台GTC时可以使用自动录入关断器,如果现场有多台GTC时必须执行手动录入关断器。

#### 自动录入关断器(GTC=1个)

按GTC中间按钮让Running灯常亮,让RSD灯熄灭,5秒后再长按按钮,GTC进入自动录入模式,松 开按钮,指示灯234来回闪烁等待约10分钟Running指示灯闪烁表示自动录入成功,再次按按钮 至Running指示灯常亮,关断器正常工作。如果指示灯3闪烁代表本次自动录入失败请检查线路 后重新执行该步骤,如果三次都不成功请联系相关技术人员。

#### 手动录入关断器(GTC>1个)

备注:如果使用了自动录入关断器功能,会使现场多台GTC中各自管理的关断器重复而产生冲突,只需重新执行手动录入关断器的操作即可。(手动录入关断器是为了将现场的关断器录入 到不同的GTC中)

#### 一、流程

推荐应用流程:

1.首先将GTC上电

2.采用USB转RS485线,连接GTC和电脑

3.选择对应的串口

4.读取MAC Addr和Version,如果正常显示,代表当前连接正常,否则检查线缆是否正确连接 5.录入RSDi-2编码到List列表,然后点击Write写入GTC;录入方式方式有以下两种

①通过Import按钮,识别选择的图片进行导入

②通过键盘手工录入编号,注意每个编号间采用英文逗号进行分割

6.通过To Monitor,进行关断器当前状态监控

#### 二、接线

使用USB转RS485,将GTC与电脑连接,连接示意如下图

![](_page_20_Figure_13.jpeg)

1.选择对应的串口

GT/GTC Config Tools ON OFF PASS GT/GTC IOPT Monitor Base Write Read MAC Addr : N/A Version : N/A Read N/A DateTime : Write Read Import Read Write Clear To Monitor Number : 2 List : 230727000001,230727000002 AC Addr : N/A Read Time : N/A Cmd Result : N/A Version 21

#### 成功后,显示绿圆圈,如下图

			COM4		ON	OFF	PAS
TIGTC IOPT Mo	nitor						
Base							
MAC Addr :	N/A				Write	Rea	d
Version :	N/A					Rea	b
DateTime :	N/A				Write	Rea	d
Number :	2	Imp	ort Read	Write	Clear	To Mon	tor
List :	2307270000	01,2307270	00002				

#### 2.GTC功能说明

GT/GTC Config Tools	
COM4 • 🥑 ON OFF	PASS
112233445566 Write Read	
00010073,125,V1.2.5,Jul 10 2024_18:47:56	
2024-07-15_15:27:09	
2 Import Read Write Clear To Monito	-
230727000001,230727000002	
	GT/GTC Config Tools

①MAC Addr:

点击Read,读取GTC的地址,点击Write将左侧输入框内的地址写入GTC

2 Version

点击Read,读取GTC的软件版本号

③DateTime

点击Read,读取GTC的时间,点击Write将系统时间写入GTC

④RSDi-2 Config – Import

点击Import,通过图片导入RSDi-2编码,如下图

点击Import,将识别到的编码,导入List框中

🛇 ग्रम				×	Path:	D:\wangl\Do	cuments\20	0240711134	121.jpg						
← → 、 ↑  ▲ → □ → □ → □ → □ → □ → □ → □ → □ → □ →	~ C	在文档中搜索		ρ											
组织 - 新建文件夹			• •	0											
· 回收站 / · · · · · · · · · · · · · · · · · ·					1	1 <b>0</b> 0	P	0	D	E	E	6	н		J
□ 文档 2024071109564 0.jpg 1;jpg					1 812										
RDBallastinfo					2 113										Ш
✓ ■ 此用题前 > ■ Windows (C:)					3 89										Ш
> _= Data (D:)					4 15										
X(#44(N): 20240/11095840.pg		打开(Q)	TR201		Find 3 2419 2419 2419 2419	5 )3002311,241 )3002285,241 )3002302,241 )3002337,241	903002312,2 903002288,2 903002209,2 903002295,2	41903002286 4190300230 4190300231 41903002297	9,2419030022 4,2419030022 3,2419030022 7,2419030022	293,24190300 284,24190300 283,24190300 296,24190300	12300,241903 12158,241903 12290,241903 12156,241903	002157,2419 002336,2419 002294,2419 002291,2419	03002292.241 03002286.241 03002303.241 03002305.241	903002149,24 903002307,24 903002310,24 903002306	190300230 190300230 190300229
MAC Addr : N/A Read Time : N/A Cmd Result : N/A			Version	n 2.1.1			C	Sancel					Import		

⑤RSDi-2 Config – Read

点击Read,读取当前GTC配置的RSDi-2列表

6 RSDi-2 Config – Write

点击Write,将List中的RSDi-2列表,写入GTC

⑦RSDi-2 Config – Clear

点击Clear,将GTC中的RSDi-2都删除

⑧RSDi-2 Config – To Monitor

点击Monitor,将List列表的RSDi-2,放到Monitor页面进行展示

#### 3.读取单台RSDi-2工作参数功能说明

GTC OPT N	Accident	COM4 V ON OFF PASS
ase		
MAC Addr :	230727000001	Read
Comm :	N/A	IN Voltage : N/A
State :	N/A	Out Voltage : N/A
Temp :	N/A	Out Current : N/A
Error :	N/A	Out Power: N/A
tatistics		
SKU :	N/A	Version : N/A
Run Time :	N/A	Recv Cnt: N/A
On Time :	N/A	Offline Time : N/A
Engery :	N/A	Offline Cnt: N/A
Recv Time :	N/A	

输入需要读取的RSDi-2编号,点击Read,读取其当前状态 Comm:通讯状态,Online代表在线,Offline代表离线 State:当前状态,ON工作,OFF关闭 Temp:当前温度,摄氏度 Error:当前故障,Normal代表正常 IN Voltage:输入电压 Out Voltage:输出电压 Out Voltage:输出电流 Out Current:输出电流 Out Power:输出功率 SKU:产品型号 Run Time:运行时间 On Time:工作时间 Engery:发电量 Recv Time:接收时间

4.Monitor功能说明

![](_page_22_Picture_4.jpeg)

点击Start,启动监控,软件将定时刷新List中RSDi-2的状态。

### 4.1 GTC配网(APP1.0 使用说明)

#### 步骤1. 下载APP并注册账号

![](_page_23_Picture_2.jpeg)

iSungo-Android

![](_page_23_Picture_4.jpeg)

iSungo-ios

扫描二维码下载 iSungo APP

![](_page_23_Picture_7.jpeg)

打开APP注册账号

### 步骤2. 创建电站

![](_page_23_Picture_10.jpeg)

#### 步骤3.填写电站信息

下午3:58   0.8K/s 🗇		* 11 11 😤 🎟
÷	电站信息	完成
业务类型		光伏系统 >
电站类型		家庭户用 >
电站名称		请输入电站名称
并网类型		全額上网 >
电站位置		>
电站照片		0 >
建站日期		可选 >
度电收益		可选
总成本(万)		可选
货币		CNY >
光伏装机容量(kWp	)	请输入装机容量
电站业主		王二毛 >
访客		可选 >
联系人		可选
联系电话		可选

#### 步骤4. 扫码采集数据网关

![](_page_23_Picture_14.jpeg)

![](_page_23_Picture_15.jpeg)

![](_page_23_Picture_16.jpeg)

GTC左侧二维码示例

点击电站右侧箭头,下拉点击添加采集器,扫描数据网关GTC左侧面的WIFI序列号二维码。

# 步骤5. GTC WIFI 配网

![](_page_24_Picture_1.jpeg)

按照指示流程操作,显示配网成功即可。

# 步骤6. 优化器 (关断器) 状态查看

下午5:17   2.8K/s 🞯 🕺 🕍	31 î î	下午5:17   18.2K/s <sup>(</sup> )	***************************************	下午5:18   0.3K/s 🗇 🐔	\$ % M % \$ 50
光伏系统		← 优化器控	制器详情 …	÷	优化器详情 ··
Q. 搜索		基本信息		基本信息	
全部(3)     在线(1)     告豎(0)       新昌电站	高线(2)	控制器MAC地址: FFFFFFFFFFF	快速开关: 关	控制器SN: R07E7A08790A044	优化器MAC地址: B-CTL 240403000099
2023-12-11		优化器数量: 99	实时功率: 15.80 w	当前序号: 99	输入电压:
	~	累计总电量: <b>30.00</b> wh		输出电压: <b>27.4</b> ∨	输出电流: 0.5 A
SUNGO Plant 名骏百盛 Ming Jun Auto Service Center, 星… 2023-11-02	^	240403000001	>	输出功率: 15.4 w	产品温度: 42.0 で
采集器 R07E7A08790A044B	^	240403000002	>	总运行时间: 13.13 h	正常工作时间: 12.30 h
び 成化控制器 R07E7A08790A044B-CTL	>	240403000003	>	累计电量: 30.00 wh	工作状态: 打开
		240403000004	>	类型:	版本:
GT Collect R07E781D0A0715BA	~	240403000005	>	3	112
	~	240403000006	>	历史数据 2024-01-30 参数选择	₣ 日月年全部
采集器	~	240403000007	>		
R07E670000240001 添加平集祭		240403000008	>	40	
	0	240403000009	>	20 -	
	我的		_	10 -	
1		2			3

配网成功后,点击电站项目右侧箭头直到出现优化控制器,然后点击优化控制器,再点击优化器 编码,查看优化器详情(关断器详情)。

![](_page_25_Picture_0.jpeg)

![](_page_25_Figure_1.jpeg)

点击APP概览,再打开页面右上角下拉菜单,点击<mark>布局</mark>查看状态。

#### 点击布局后,电站状态如下图几种状态显示。

上午11:43   7.8K/s 🕱	* 21 21 2 30 3	上午11:43   7.8K/s 🗇	* 11 11 1 1 1	上午11:43   7.8K/s 句	*31 31 3 3
	0 Plant	← SUNGO	Plant		GO Plant
< 2023-11-07		< 2023-11-07		< 2023-11-07	
470.4. 465.7. 47 W W V (1,1) (1,2) (1,	1.9 465.4 465.7 W W W 3) (1.4) (1.5)	470.4 465.7 471. W W W (1,1) (1,2) (1,3	• 465.4 465.7 W W (1,4) (1,5)	470.4 465.7 47 W W (1,1) (1,2) (1	71.9 465.4 465.7 W W W I,3) (1,4) (1,5)
467.6 466.2 470 W W V (2,1) (2,2) (2,	0.8 486.2 470.5 W W W .3) (2.4) (2.5)	467.6 466.2 470. W W W (2,1) (2,2) (2,3	<ul> <li>486.2</li> <li>470.5</li> <li>W</li> <li>(2,4)</li> <li>(2,5)</li> </ul>	e 467.6 466.2 47 W W (2,1) (2,2) (2	0.8 486.2 470.5 W W W 2,3) (2,4) (2,5)
465.7 473.3 461 W W V (3,1) (3,2) (3,	6.5 484.7 482.8 W W W 3) (3.4) (3.5)	465.7 473.3 466. W W W (3,1) (3,2) (3,3	• • • • • • • • • • • • • • • • • • •	465.7 473.3 46 W W (3,1) (3,2) (3	56.5 484.7 482.8 W W W 3.3) (3,4) (3,5)
482.2 487.2 46 W W V (4.1) (4.2) (4	5.3 465.7 469 W W W (4,5) 3) (4,4) (4,5)	• 482.2 487.2 465. W W W (4,1) (4,2) (4,3	• • • 3. 465.7 469 W W (4.5) (4.4) (4.5)	482.2. 487.2. 46 W W W (4,1) (4,2) (4	55.3 465.7 469 W W W (4.5) 4,3) (4,4) (4,5)
0 —	11:40	0 —	11:40	0 —	11:40
		2			3

状态	说明
如图1-右上角绿色圆圈	关断器运行正常
如图2-右上角灰色圆圈	关断器离线,请检查SN和位置信息是否正确,然后重新搜索设备
如图3-右上角红色圆圈	关断器故障,需更换关断器

# 4.2 GTC配网(APP2.0 使用说明)

### 步骤1. 下载APP并注册账号

![](_page_26_Picture_2.jpeg)

#### iSungo-Android

![](_page_26_Picture_4.jpeg)

iSungo-ios

扫描二维码下载 iSungo APP

步骤3.填写电站信息

#### 

^

打开APP注册账号

# 步骤2. 创建电站

![](_page_26_Picture_11.jpeg)

\_\_\_\_

点击创建电站

# 步骤4. 扫码采集数据网关

![](_page_26_Figure_15.jpeg)

按照自己的电站信息填写即可

![](_page_26_Figure_17.jpeg)

![](_page_26_Picture_19.jpeg)

GTC左侧二维码示例

点击右上角下拉菜单,点击"添加采集器",扫描数据网关GTC左侧面的WIFI序列号二维码

#### D: \*\*\*\* \*\*\* \* \* \* 11:18 ■: 40,1 S0,1 ♥: ♥ (■) 13:05 📴 🖬 😥 🚍 11:23 Ø & D) 411 911 9 () 13:06 D: 40 Stat 7 9 000 • 晨吉楼顶测试 $\equiv$ 4 配网 ÷ 配网结果 添加设备 4 4 正在配置 Wi-Fi选择 2024-11-11 07:11 ( ④ 创建电站 准备配网 Wi-Fi选择 正在配置 配网结果 请选择需要配网的设备 选择Wi-Fi并输入密码 请猜等 请查看设备配网结果 ◎ 修装电站 畲 添加采集器 1. 左册可以移除相关设备 Æ € 靴网 2. 友色不可选择的设备,表示该设备 ... (四 @ R07E8546921C00BD 2.46 Only 可能未进入配网状态 前 删除电站 3. 未进入配网的设备需要手动触发将 成功 帅 设备列表 配同状态 @ ROTE8546921COOBD 360 s Wi-Fi名称 R 19 # 正在配量 🛜 "SGDQ" @ R07E8546921C00BD . 需要密码 🌔 发电 Wi-Fi密码 今日 ă Я **:** B 当年 0.00 WK 社会贡献 ííí 88 8

步骤5. GTC WIFI 配网

先点击"概览"页面右上角下拉菜单,点击"配网",按照指示流程操作,显示配网成功即可

# 步骤6.优化器(关断器)详情

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1.点击"概览"页面右上角的下拉菜单,然后点击"设备列表"

2.点击"采集器"栏目即可进入采集器详情页面

3.点击"采集器详情"下方的"优化器控制器"即可进入"优化器网关详情"页面

4.点击"子设备"就可以看到优化器序列号

5.点击优化器序列号右侧箭头就可以进入"优化器详情(关断器详情)"页面

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6."优化器详情(关断器详情)"页面显示设备信息 7.点击下方"历史"图标就可以看到"优化器详情 (关断器详情)"的图表显示(显示输入电压,输出 电压,温度,输出电流和输出功率)

### 步骤7. 查看电站状态

![](_page_28_Figure_3.jpeg)

1.返回"概览"页面可以看到电站发电的基本信息
 2.点击APP"概览"右侧的"历史"可以看到电站的峰值功率
 3.点击APP"历史"右侧的"布局"可以看到光伏组件的状态
 4.点击"显示曲线"可以看到光伏组件的功率曲线
 5.长按"光伏组件图形"可以显示组件的详细信息

# 步骤8. 布局修改

![](_page_29_Figure_1.jpeg)

![](_page_29_Figure_2.jpeg)

点击此处小图标有 虚线网格方便布局

![](_page_29_Figure_4.jpeg)

![](_page_29_Figure_5.jpeg)

可以修改组件角度, 完成后保存即可

其它功能

![](_page_29_Figure_8.jpeg)

添加访客邮箱

切换视角,专业顾问和终端用户, 以上步骤都是基于终端用户进行操作

#### 全球总部

晟高能源科技(江苏)有限公司 地址:江苏省苏州市工业园区苏虹西路179号1层01单元

#### 优化器&储能制造中心

康晟佳智慧能源(浙江)有限公司 地址:浙江省绍兴市新昌县澄潭街道兴梅大道69号小微产业园3#楼

#### 日本公司

SungoEnergy株式会社 地址:東京都武蔵野市関前四丁目16番5-206号

#### 荷兰公司

SUNGO Energy Technology B.V. 地址:Hoofdweg-Noord 9T, 2913LB Nieuwerkerk aan den IJssel, The Netherlands

#### 英国公司

地址:60 Windsor Avenue, London SW19 2RR, United Kingdom

#### 美国公司

SUNGO ENERGY TECHNOLOGY INC. 地址:5900 Balcones Drive,STE 100 Austin TX 78731

网址:www.sungoess.com 邮箱:sales@sungoess.com 电话:+86 (0)512 6512 2036 售后邮箱:after-sales@sungoess.com

![](_page_30_Picture_13.jpeg)

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