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# Instructions for checking, installing, configuring, monitoring and maintaining Optimizer

Created: Oct 21, 2021 10:46:07 Latest reply: Oct 21, 2021 13:23:42 ◎ 69 📿 1 🖧 1 🖓 0 🏠 0

View the author #1

# Instructions for checking installation, configuration, Monitor and maintain Optimizer.

## 1. Instructions for using Physical Layout Template:

- Need to prepare: Print "Physical Layout Template" to mark the actual position and QR code of PV module (including 06 rows and 10 columns)

Sheet	of				To sheet	+			Physical	Layout Templat	e
Mark	for north	Customer		Installer	Panel		Inverter	Optimize	er l	ssue: 02	
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Note:

Before fixing the Optimizer to the PV module, be sure to remove the QR code in front or after the Optimizer and \_ paste it into the Physical Layout Template.

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- If the actual location does not have PV module panels, leave that position blank as shown below.



- If the actual location has a PV module, but the Optimizer is not installed, highlight that location as shown in the figure below.



- If the actual location has a PV module and has an Optimizer installed, remove the QR code on the back of the Optimizer, then paste and mark it as shown in the picture below (note that the QR code image is not pasted out of the specified frame). For example, 1-6 means PV string number 1 and PV module number 6.

E	F	G
	SN: 2102311X TG8THC008676 Y	[]
	1-6	

Example 1: PV string is aligned and <= 10 PV modules







Example 3: PV strings are aligned and > 10 PV modules (1 not in the same Phisical layout)



2. Optimizer installation instructions:



Optimizer input port: connect to PV module.



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+ After the Input port is connected to the PV module, use a multi-meter to check the resistance of the Optimizer output port (scale 10kOhm or 100kOhm).



+ If the measured value is between 0.9 and 1.1 kOhm, the Optimizer works fine.

+ If the measured value is < 0.9 kOhm, the measurement direction is in reverse.



+ If the measured value is > 1.1 kOhm, one of the following cases may occur: "Optimizer Input port is not connected to PV module" or "mismatched Optimizer Output port with PV module" or "Radiation is low or at night night" or "Optimizer has a loss

- Optimizer output port: connect to the Output port of the next Optimizer or connect to the inverter or connect to the PV module next to it.

+ Check the resistance of the Optimizer chain before connecting to the inverter. For example, the Optimizer series consists of 10 Optimizers, the resistance measurement value will be from 9kOhm to 11kOhm.



+ Connect the Optimizer string to the PV input of the inverter.



## 3. Connect the Optimizer to the inverter:

- Use Fusionsolar/SUN2000 app to connect locally to the inverter by USB WLAN or by USB data cable.

- Log in with Installer user, select Maintenaince/ Add device/ At Optimizer select Auto Search to connect inverter with Optimizer.

< SUN2000	-XXXX-XX	4	<	Maintenance				
No communications component	Connection failed		Ð	Add/Delete device	>	1	Add/Delet	e device
Active power 0.000pm	Energy yield of ourrent day 0.00pswg		۲	Physical layout design of PV modules	>	Power m	neter	e device
Monthly Energy Yield	Total		(T)	Upgrade device	>	+		
۵	0		(1)	Performance data	>	Battery		
Alarm management	Quick settings		0	Optimizer disconnection detection	,	+		
	03		0	Grid connected Restore defaults		Optimize Searchi	er ng completed	Auto search
Device Monitoring	Maintenance		٢	Clear alarms			SN: Device name:	
63	T+Ti		O	Clear historical energy yield			beriet name.	
Settings	Power adjustment		6	Adjust total energy yield				

- Check the number of Optimizer after connecting with the actual number of optimizer.

- 4. Create Physical layout to monitor PV module via Optimizer:
  4.1. Method 1: Create Physical layout using local SUN2000 apps
  4.1.1 Create Physical layout automatically (by SUN2000 App):

- Check the Physical layout again after pasting the QR code and marking the position of PV string - PV module (in fact, there can be more than 1 Physical layout).

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- Use your phone to take a picture of each Physical playout.

+ Keep the phone parallel to the layout.

+ Capture the entire layout, without missing any corners.

+ Paste the QR code within the allowed frame limit, do not paste it out of the frame.



- Use Fusionsolar/SUN2000 app to connect locally to the inverter by USB WLAN or by USB data cable. Log in with the Installer user, select **Maintenaince**/ **Physical layout design of PV modules**/ **Physical layout** .

C SUN200	0-XXXX-XX	• <	Maintenance		<	Physical layou mod	t design of PV ules	
Communications No communications component	Connection failed	(+) A	dd/Delete device	>	Ou	itput power(W) *	Physical layout +	
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Alarm management	Quick settings		Performance data	>		4	հղ	
Device Monitoring	Maintenance	A ()) Ir S	FCI self-check nverter ON/OFF tandby : insulation resistance detection			Tap the blank area t	o add PV modules.	
Settings	Power adjustment	© R @ c	testore defaults dear alarms		Ta Id di	ap the blar entify ima splayed.	nk area. The ge button is	

- Select Identify image/ press (+) to load Physical layout image (load 1 image at a time)/ Confirm and compare with actual number of Optimizer .

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- If more than 1 Physical layout, continue to select **Identify image/ press (+) to continue loading image/ select Next and Confirm.** 



- Click Submit to finish creating Physical layout.

- If the QR code is blurred or torn, making the QR code unrecognizable, we can assign the Optimizer to the corresponding PV panel.

+ At Maintenaince / Physical layout design of PV modules / Physical layout, click on the position of PV module you want to assign Optimizer / Select Optimizer with the corresponding SN.

+ Repeat with other PV modules, click Submit to complete.

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## 4.1.2. Create physical layout manually (with SUN2000 App):

- Use Fusionsolar/SUN2000 app to connect locally to the inverter by USB WLAN or by USB data cable. Log in with the Installer user, select **Maintenaince**/ **Physical layout design of PV modules**/ **Physical layout**.

SUN200	0-XXXX-XX	•	K Maintenance		C Physical layout desig modules	n of PV Submit
No communications acomponent	Connection failed		+ Add/Delete device	>	Output power(W)	hysical layout *
Active power 0.000pm	Energy yield of ourrent day 0.00pwng		Physical layout design of PV modules	>	•	Ň
Monthly Energy Yield	Total 0.00mm		Upgrade device  Upgrade device  Log management	>		
() Alarm	Culck settings		(III) Performance data	>	رالس	
management			AFCI self-check			
Device Monitoring	Maintenance		Inverter ON/OFF     Standby : insulation resistance detection		Tap the blank area to add P	/ modules.
500			Restore defaults		Tap the blank a	rea. The
Settings	Power adjustment		(tear alarms		Identify image b displayed.	outton is

- + Select Add PV module/ enter the row number and column number of PV module, then Next.
- + Next, we use (+) or (-) to add PV module with the same shape and actual position, then Next.
- + Next, adjust the tilt angle for PV module (default is 0), then Confirm.



- After finishing creating the Physical layout, next we will assign the Optimizer to each PV module corresponding to the actual installation.

 $+\,At$  Maintenaince / Physical layout design of PV modules / Physical layout, click on the position of PV module you want to assign Optimizer / Select Optimizer with the corresponding SN.

+ Repeat with other PV modules, click Submit to complete.

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#### Method 2: Create Physical layout using Fusionsolar WebUI: 4.2.

Actionatic physical layout creation (Fusionolar WebUI):
 Log in to your Fusionsolar account at <u>https://sg5.fusionsolar.huawei.com</u>, after logging in, select the project/ Layout/ Physical view/ Edit Physical layout.

🎢   FusionSolar 🔐		Home Reports	Plants Mainte	enance System	⊠ Q	English () (?
Plant KPIs		Plant	Status		Real-Time Alar	ms >
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Status 👙 Plant Plant Nam	Grid e \$ Region \$ Con Date	nection	tring ty (kWp) ♀ Quan	nizer 💠 Battery Wea	ther Current Power (kW) Specific Energy (kWh/kWp)	y tield Total ↓ Today ≎ Yield ≎ (kWh) (kWh)
• 📃 Co	ompa Vietnam	7.370	18	<u> </u>	0.03 1.50	11.07 5368.22
🎲   FusionSolar 💮			Home Reports	- Plants Maintenan	ice System Q	0
Home > Company Overview   Layout   Rep	oorts   Device Manager	nent   Alarms				
Physical View   Logical Lay	out					
					Edi	Unit: KWh t Physical Layout

- Click "Click to Upload" to upload the Physical layout image. After successfully uploading the image, the system will automatically determine the number of Optimizer (Confirm and compare with the actual number of Optimizer).

- Back				Result	>
lant Layout		Move Drawing	Generate Layout	四 2498091b03b8f0e5a9a912.jpg	
2498091b03b8f0e6a9	Click to Upload	Click to Upload	Click to Upload	Optimizer	18
Click to Upload	Click to Upload	Click to Upload	Click to Upload	PV modules without an optimizer	13
Click to Upload	Click to Upload	Click to Upload	Click to Upload	Abnormal optimizers	0
Click to Upload	Click to Upload	Click to Upload	Click to Upload	Reasons of abnormal optimizers:	

- If there are more than 01 physical layout images, continue to select Click to Upload to upload images (maximum 16 images (4x4) equivalent to the actual size of 40 rows x 24 columns PV module).

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- After downloading all Physical layout images, click Generate Layout to let the system create a composite physical layout.

Plant Layout		Move Drawing	Generate Layout	Result		Х
2498091b03b8f0e6a9	Click to Upload	Click to Upload	Click to Upload			
Click to Upload	Click to Upload	Click to Upload	Click to Upload			
Click to Upload	Click to Upload	Click to Upload	Click to Upload			
Click to Upload	Click to Upload	Click to Upload	Click to Upload		11-44-25 112-443 112-444 112-444 112-444	
					Cancel	save

- In case the PV module position is wrong compared to reality or the PV module is moved, we can custom reset the PV

module position accordingly. + Click on Physical layout, can **drag**, **drop**, **copy**, **paste PV module**, **Bind/Unblind when replacing Optimizer** to customize the number and position of PV modules. Save to save.

← Back Plant Layout		Move Drawing	Generate Layout	Physical Layout
2498091b03b8f0e6a9	Click to Upload	Click to Upload	Click to Upload	, <b>11</b>
Click to Upload	Click to Upload	Click to Upload	Click to Upload	
Click to Upload	Click to Upload	Click to Upload	Click to Upload	
Click to Upload	Click to Upload	Click to Upload	Click to Upload	



## 4.2.2. Automatic physical layout creation (Fusionolar app):

- Log in to your Fusionsolar account, select the corresponding Plant / Layout / Download each image Physical <u>layout / Confirm to confir</u>m.



After completing the image loading, the Physical layout will be completed. You can click on each Optimizer to check the status and operating parameters.

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< Connected devices		<	Optin	nizer	
Optimizer(18)	Connected	Optimizer I	D		C
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Plant name Company		Optimizer i	name		BT2099085
Device SN					
Jower Seneor	Connected	Output pov	ver		16
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Plant name Company		rotal yield			101.02.1
Software version		Output volt	age		29
Device SN					
Battery	Connected	Input volta	ge		29
Device type Battery					
Rated capacity 5.000 kWh		input curre	nı		0.3
Software version		Runnina st	atus		Opera
Device SN		5			
		<b>1</b>	Û	3	Ē
		Real-time info	Alarm info	Historical info	Basic

## **5. Optimizer monitoring and troubleshooting:** - On-site monitoring by SUN2000 app:



+ Green indicator light: optimizer works normally.

- + Gray indicator: optimizer offline (normally when it's dark or need to auto search again if it's light).
- + Red light: Optimizer reports an error.

Error name	Reason	Treatment
Input Overvoltage – High input voltage	PV module voltage is greater than the specified input voltage of the Optimizer	Check if the PV module's open circuit voltage Voc exceeds 80VDC
Overtemperature – Overheating	Ambient temperature exceeds the threshold or the Optimizer installation is not in accordance with the recommendations.	<ol> <li>Check the ventilation and the trunogwf ambient temperature at the place where the Optimizer is installed. Need to improve if conditions are not met.</li> <li>If environmental conditions are met, contact Huawei technical department.</li> </ol>
Internal hardware fault – Hardware fault	Optimizer is installed incorrectly or has been corrupted.	Contact Huawei technical department.

- Remote monitoring using Fusionsolar app:

- + Real-time info: parameters when operating.
- + Alarm info: error information.
- + Historical Info: input-output voltage chart, input-output current, power.
- + Basic info: device information.

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				-	Power Sensor Device type Power Sensor Plant name Company	Connected	Total yield		181.627 kWh
527 526 310 773 875 575	2.24				Software version Device SN		Output voltage		29.2 V
					Battery Device type Battery	Connected	Input voltage		29.5 V
2	949 3.02 0.96 549 803 0.03 0.03 803		Number1.0.15	BT2099089318	Rated capacity 5.000 kWh Plant name Company Software version		Running status		Operating
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U Bailaite	Leyod	Devices	Remarka	Comparison of Optimizers Optimizer ID Biological Current • 0.6004pot • 0.3004pot Current • 0.5004pot • 0.3004pot • 0.3004pot Current • 0.5004pot • 0.3004pot • 0.3	timizer		Real-tone info	into Historical info	Basic info
				Real-time info	Historical info				

- Remote monitoring by Fusionsolar WebUI: Go to Layout, click on a PV module with Optimizer:
  + Real-time info: parameters when operating.
  + Alarm info: error information.
  + Historical Info: input-output voltage chart, input-output current, power.

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ne Info   Alarm	Info   Historical Info								
ect Optimizer :	Selected: 1	Date: 20	)21-10-15	Signal point:	: Selected: 2	Search			
COutput Current(4	k),Input Current(A)								
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## 6. Replace Optimizer in case the Optimizer is damaged:

Turn off the inverter according to the recommended procedure in the user manual.
Then, remove the Faulty optimizer from the PV module (note the labor protection).
Replace the new Optimizer and check the Output port resistance of the new optimizer.
Use the SUN2000 app to connect locally to the inverter, log in with the Installer user, select Maintenaince / Add device / At Optimizer click Auto Search to connect the new Optimizer to the inverter.

SUN2000	-XXXX-XX	<	Maintenance		
Communications No communications component	Connection field	6	Add/Delete device	>	Add/Delete device
Active power 0.000pm	Energy yield of ourrent day	6	B Physical layout design of PV modules	>	Power meter
Monthly Energy Yield	Total 0.00pmm	0	Upgrade device     Log management	>	+
<b>D</b> Alarm	Source settings		Performance data     Optimizer disconnection detection	>	Battery +
	23	(	Inverter ON/OFF Grid connected  Restore defaults		Optimizer Searching completed
Device Monitoring	Maintenance	0	Clear alarma		SN: Device name:
Settings	Power adjustment	4	Adjuet total energy yield		

- Then click on the corresponding PV module on the Physical layout, and the new Bind (link) Optimizer (by Serial Number).



Please contact Vietnam Solar Service team at apsupport@huawei.com for assistance.

Huawei Vietnam Solar Service hotline contact: +84967799834 (Mr.Thanh) +84964854806 (Mr.Eng) +84393786230 (Mr.Minh)

THANK YOU !

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