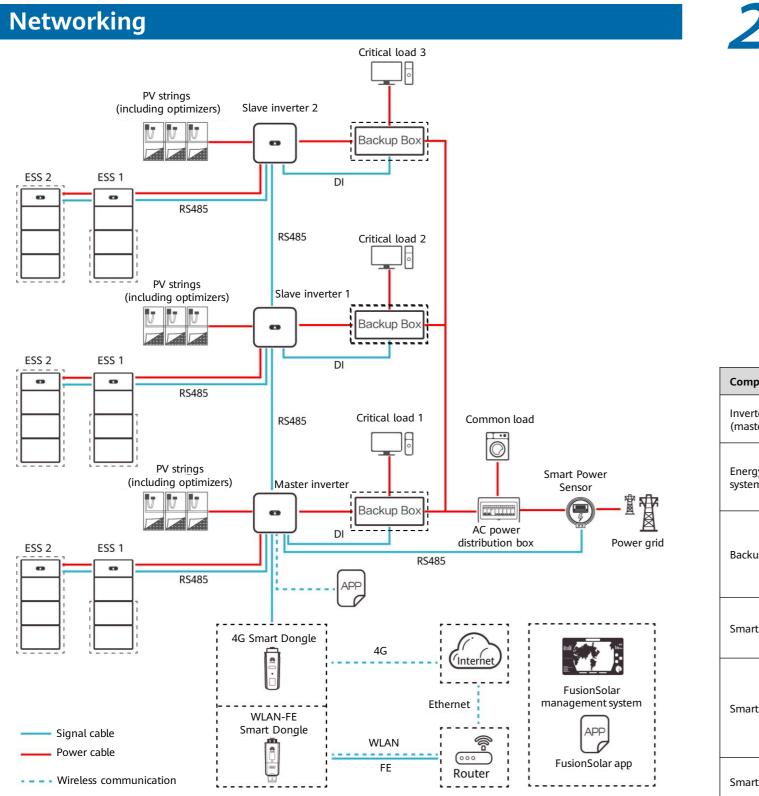
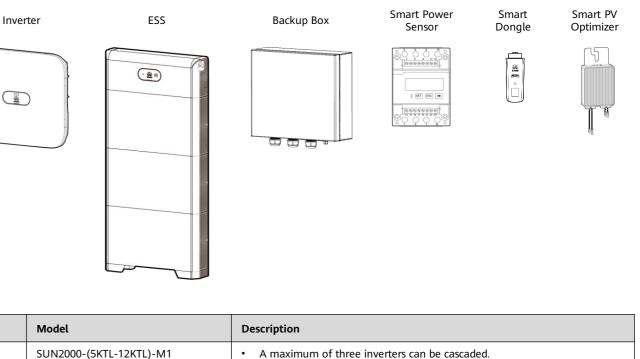
(Three-Phase PV+ESS Scenario + Smart Dongle Networking)



Product Overview



Component	Model	Descriptior
Inverter (master and slave)	SUN2000-(5KTL-12KTL)-M1 SUN2000-(12K-25K)-MB0 SUN2000-(15K-25K)-MB0-ZH	 A maxir If the SI connect
Energy storage system (ESS)	LUNA2000-(5-30)-S0	 The cap be casca If there
Backup Box	Backup Box-B1	 AC inpu (single- If there inverter The SUI be conn
Smart Power Sensor	DTSU666-H DTSU666-HW YDS60-80 YDS60-C24	 The Sm It connerpower l
Smart Dongle	SUN2000-(5KTL-12KTL)-M1: • SDongleA-03 (4G) • SDongleA-05 (WLAN-FE) SUN2000-(12K-25K)-MB0/MB0-ZH: • SDongleB-06 (4G) • SDongleA-05 (WLAN-FE) • SDongleB-03-CN (4G)	 The Sm It conne The SDe CN (BO can be e
Smart PV Optimizer	SUN2000-450W-P SUN2000-450W-P2 SUN2000-600W-P	SUN2000-6 modules wi

D NOTE

- 1. The information in this document is subject to change due to version upgrade or other reasons. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.
- 2. For details about the solution components, installation, and cable connections, see the corresponding user manuals and quick guides.
- 3. The cable colors involved in this document are for reference only. Select cables in accordance with local cable specifications.

Issue: 04 Date: 2023-11-13



SUN2000-(12K-25K)-MB0 or SUN2000-(15K-25K)-MB0-ZH is cted to the ESS, the inverter cannot be cascaded.

pacity of a battery module is 5 kWh. A maximum of two ESSs can caded and the maximum capacity is 30 kWh. e is only one ESS, it must be connected to the master inverter.

ut voltage range: grid-tied (three-phase) 342-440 V; off-grid -phase) 220/230 V

e is only one Backup Box, it must be connected to the master

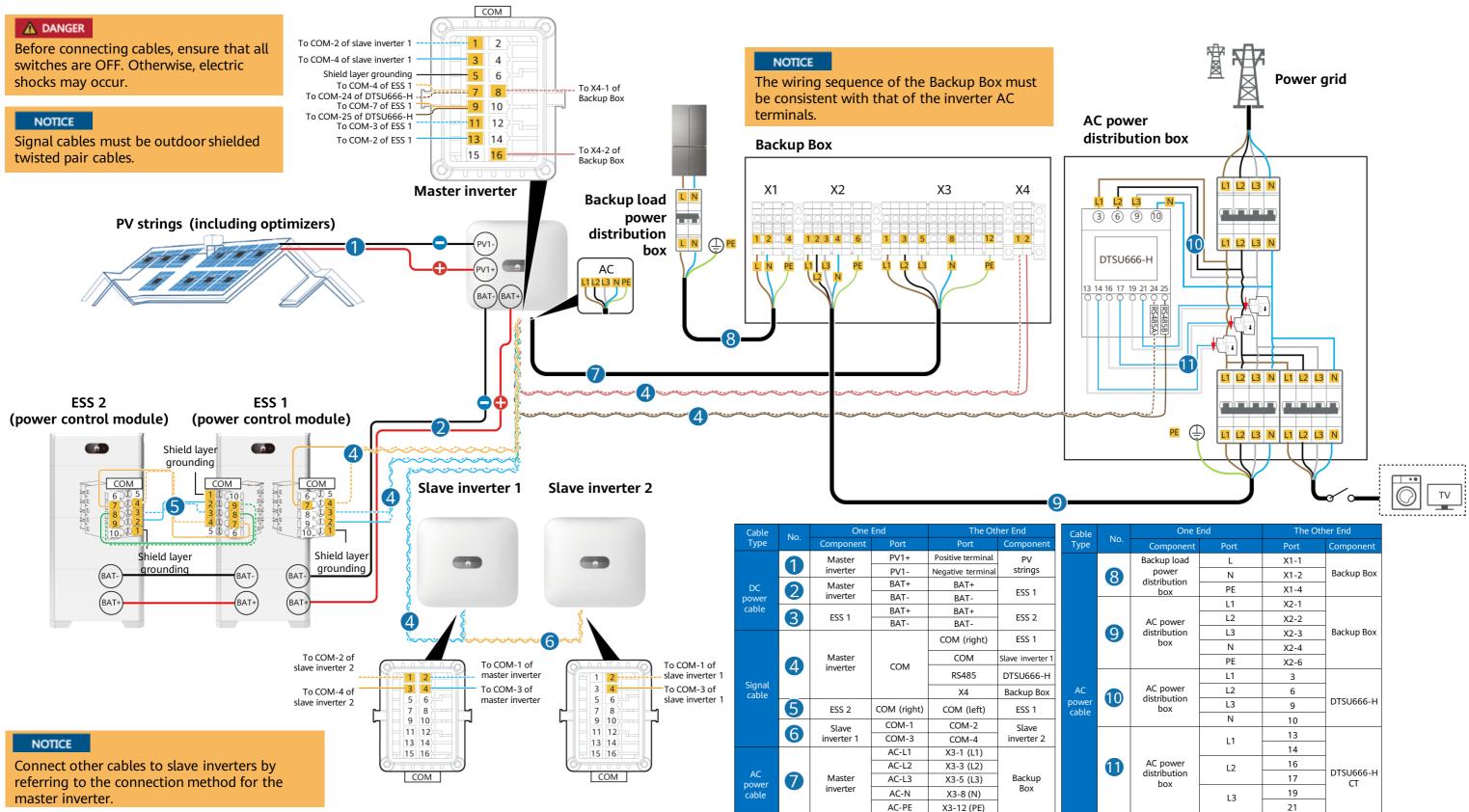
N2000-(12K-25K)-MB0 and SUN2000-(15K-25K)-MB0-ZH cannot nected to the Backup Box.

nart Power Sensor must be connected to the master inverter. nects to the inverter over RS485 for output power management and limiting.

nart Dongle must be connected to the master inverter. nects to the management system and performs power scheduling. DongleB-03-CN supports one inverter only. When the SDongleB-06-DM number: 02314ALM-001) is used, a maximum of two inverters cascaded.

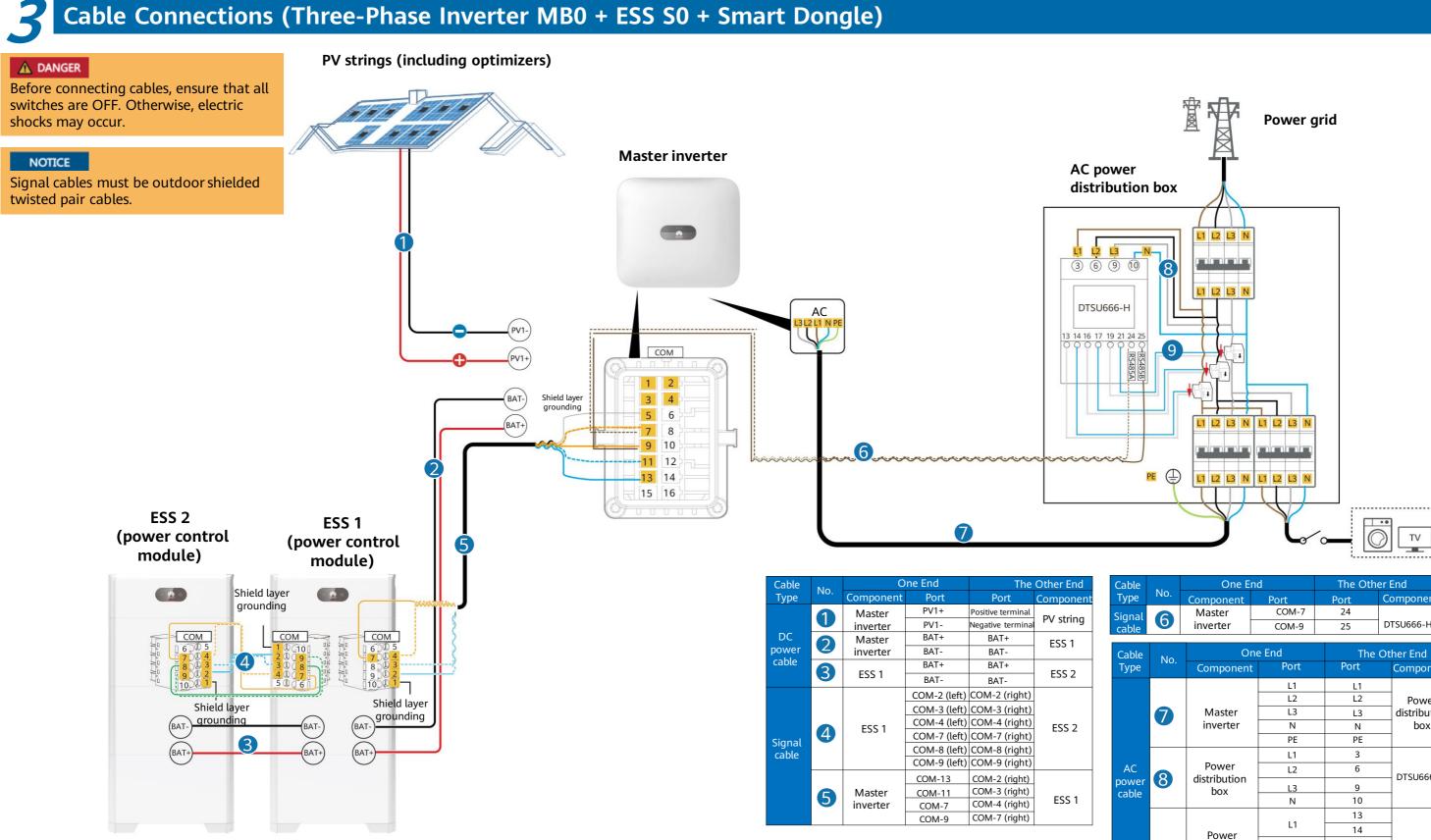
600W-P: Long and short input cables are available to connect to PV vith different cable lengths.

Cable Connections (Three-Phase Inverter M1 + ESS S0 + Backup Box B1 + Smart Dongle)





One E	ind	The Oth	her End		
Component	Port	Port	Component		
Backup load	L	X1-1			
power distribution	Ν	X1-2	Backup Box		
box	PE	X1-4			
	L1	X2-1			
AC power	L2	X2-2			
distribution	L3	X2-3	Backup Box		
box	Ν	X2-4			
	PE	X2-6			
	L1	3			
AC power	L2	6			
distribution box	L3	9	DTSU666-H		
	Ν	10	1		
	L1	13			
	LI	14			
AC power	L2	16			
distribution box		17	DTSU666-H CT		
DOX	L3	19			
	25	21			

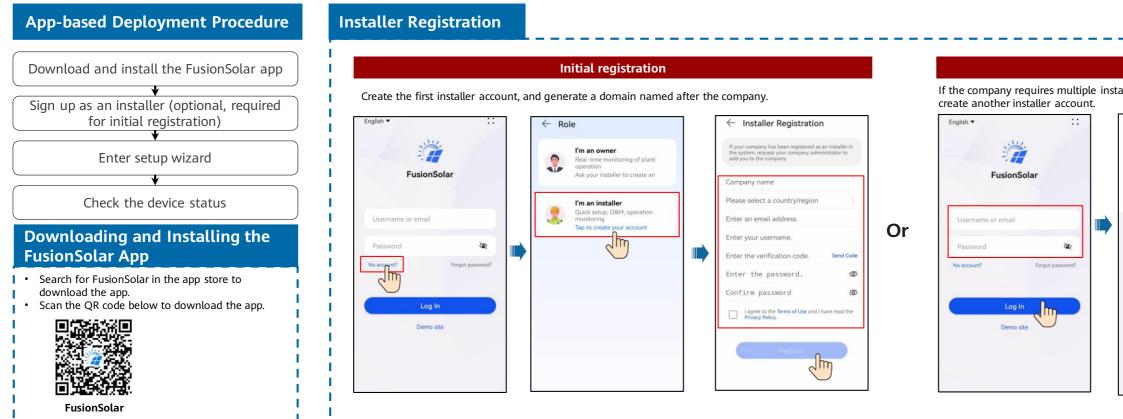




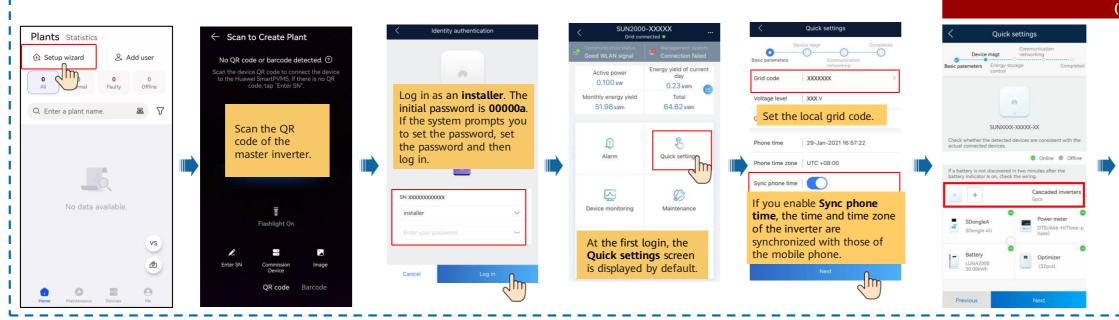
2		One E	nd	The Oth	er End
	No.	Component	Port	Port	Componen
1		Master	COM-7	24	
	6	inverter	COM-9	25	DTSU666-H

e	No.	One	e End	The Ot	her End			
2	NU.	Component	Port	Port	Component			
			L1	L1				
			L2	L2	Power			
	7	Master	L3	L3	distribution			
		inverter	N	N	box			
			PE	PE				
			L1	3				
		Power			L2	6	DTSU666-H	
er	8	distribution box	L3	9	D130000-11			
e		DOX	Ν	10				
				13				
		Power	L1	14	1			
		distribution	L2	16	DTSU666-H			
	9	box	LZ	17	CT			
			1.2	19				
			L3	21				

System Commissioning



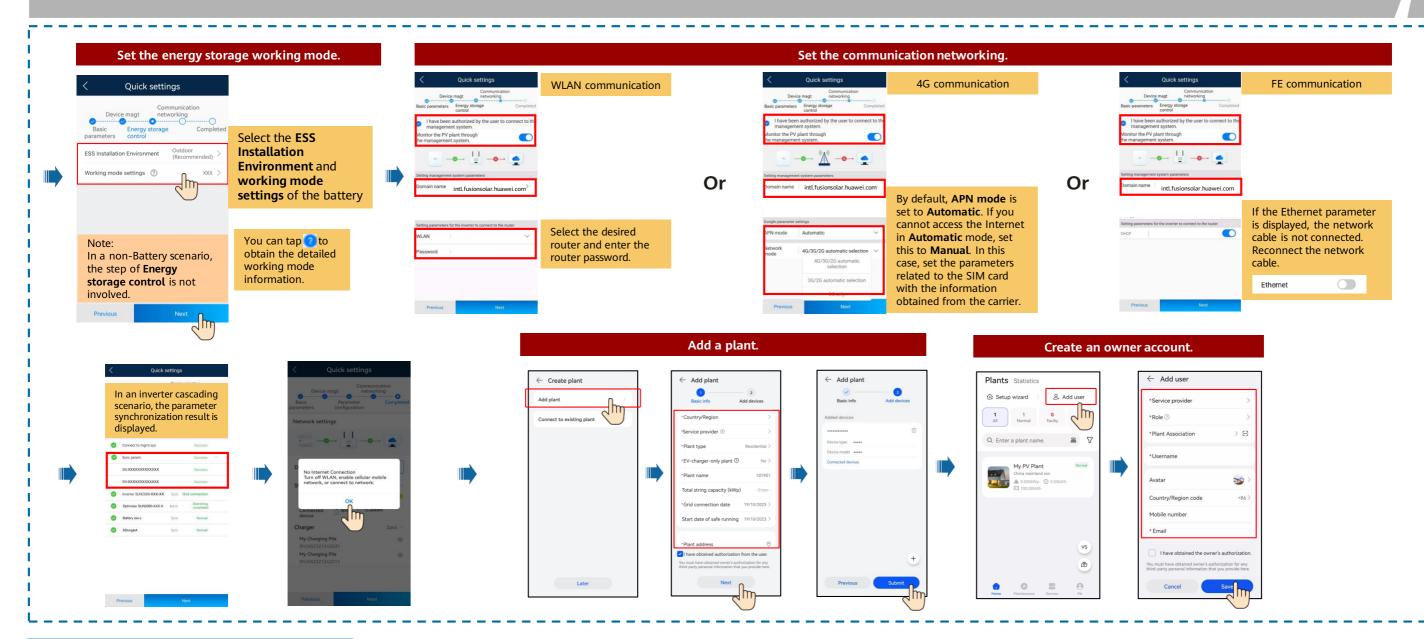
Setup Wizard (Connecting to the Inverter WLAN for Commissioning)



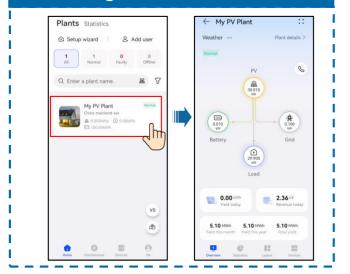


Plants Statistics	\leftarrow Add user
	*Service provider >
1 1 0 All Normal Faulty Time	*Role ⑦
Q. Enter a plant name. 😹 🏹	*Plant Association > 🖯
c Enter a plant name. ass p	*Username
My PV Plant Normal China mainland xxx	Avatar 🥁 >
= 100.00kWh	Country/Region code +86 >
	Mobile number
	* Email
vs	I have obtained the owner's authorization.
۷	You must have obtained owner's authorization for any third-party personal information that you provide here.
• • • = •	Cancel Save

Cascaded inverte	rs	< Qui	ick settings
RS485			Communication networking of Complet
erter (Search for Cascaded Inverters	Ensure that the device	
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Success	connected	
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Success	Check whether the deter actual connected device	cted devices are consistent with the s. Online @ Offlin
		If a battery is not discove battery indicator is on, c	ared in two minutes after the heck the wiring.
		+	Cascaded inverters 2pcs
		SDongleA SDongle 4G	Power meter DTSU666-H(Three- hase)
		Battery	Optimizer



Checking the Plant Status





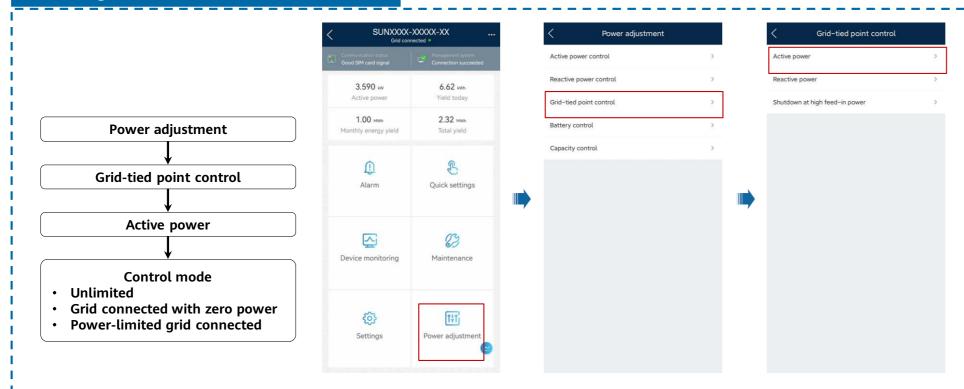
(Three-Phase PV+ESS Scenario + Smart Dongle Networking)

Off-Grid/Grid-tied Control Parameters

Enabling Off-Grid Mode

		-XXXXX-XX		< Settings		< Feature p	arameters
	Communication status Good SIM card signal	Connection succeeded		Grid parameters	>	Communication interrupt shutdown	C
	3.590 kw Active power	6.62 kwh Yield today		Protection parameters Feature parameters	>	Communication interruption duration	30 min
	1.00 MWh Monthly energy yield	2.32 MWh Total yield	l	Power adjustment	>	Soft start time	20 s
Settings	Pontally energy yield	iotai yielu		Time setting	>	Shutdown gradient	50.000 %/s
	Alarm	Quick settings		Communication configuration	>	Soft start time after grid failure	600 s
Feature parameters						Dry contact function	NC
• Off-grid mode		12				Abnormal grounding detection Upgrade delay	a
Backup power SOC	Device monitoring	Maintenance				RS485-2 communication	a
 Grid-tied/Off-grid mode switching 						Quick startup for short-time grid disconnection	Q
		t#t				Off-grid mode	
	Settings	Power adjustment				SOC	⑦ 60.0%
						Grid-tied/Off-grid mode switching	Automatic switching

Setting Grid-tied Point Control

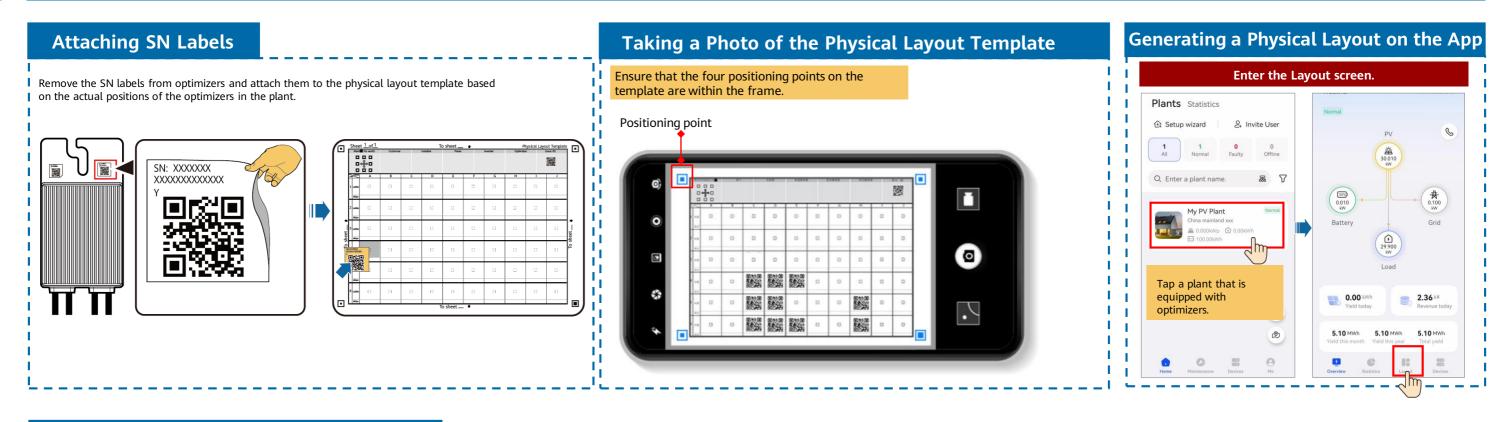




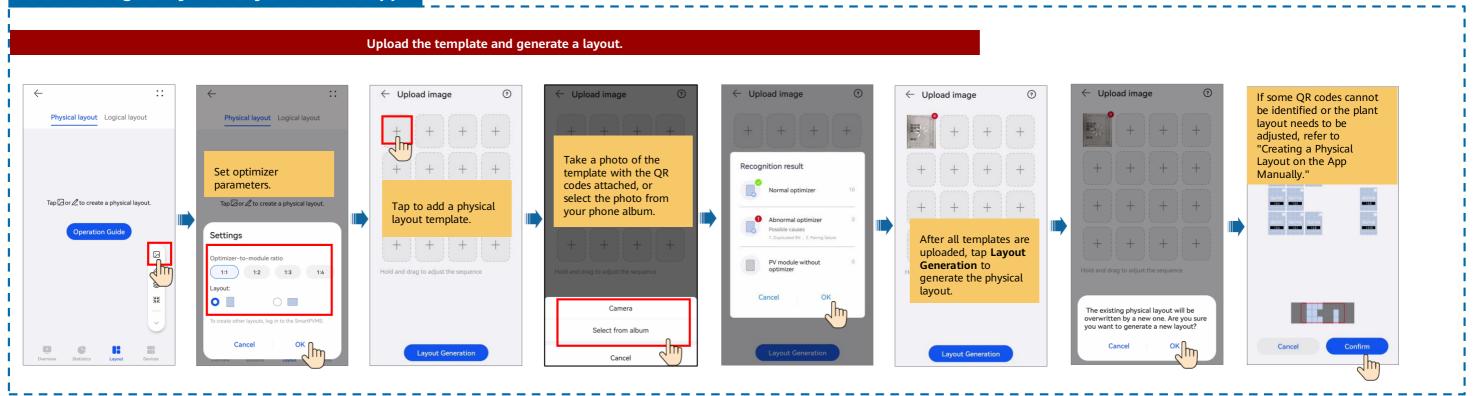
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(Three-Phase PV+ESS Scenario + Smart Dongle Networking)

Physical Layout of Smart PV Optimizers



Generating a Physical Layout on the App





(Three-Phase PV+ESS Scenario + Smart Dongle Networking)

Creating a Physical Layout on the App Manually

