HUAWEI Three Phase PV+LUNA2000+Smart Dongle Networking User Guide

Contents

HUAWEI

HUAWEI Three Phase PV+LUNA2000+Smart Dongle Networking

Product Information

Specifications

- Product Name: FusionSolar Smart PV Residential Solution
- Components: Three-phase PV system, LUNA2000 inverter, Smart Dongle Networking
- Cable Type: Outdoor shielded twisted pair cables

Product Usage Instructions

Wiring Guidelines

Before connecting cables, ensure all switches are OFF to prevent electric shocks. Follow the wiring diagram for proper connection.

Connection Steps

1. Connect signal cables using shielded twisted pair cables.
2. Connect to Slave inverter 1-COM-pin 2 and Slave inverter 1-COM-pin 4 for initial setup.
3. Connect to ESS 1-COM-pin 4, DTSU666-H-COM-pin 24, and ESS 1-COM-pin 7 for additional connections.
4. Ensure consistent wiring sequence for the Backup box and inverter AC terminals.

Cable Connection

Connect DC power cables, AC power cables, and signal cables as per the designated ports and components mentioned in the wiring diagram.

Additional Notes

- Ensure proper grounding by connecting shield layers as indicated in the diagram.
- Refer to the connection method for the master inverter when connecting cables to slave inverters.

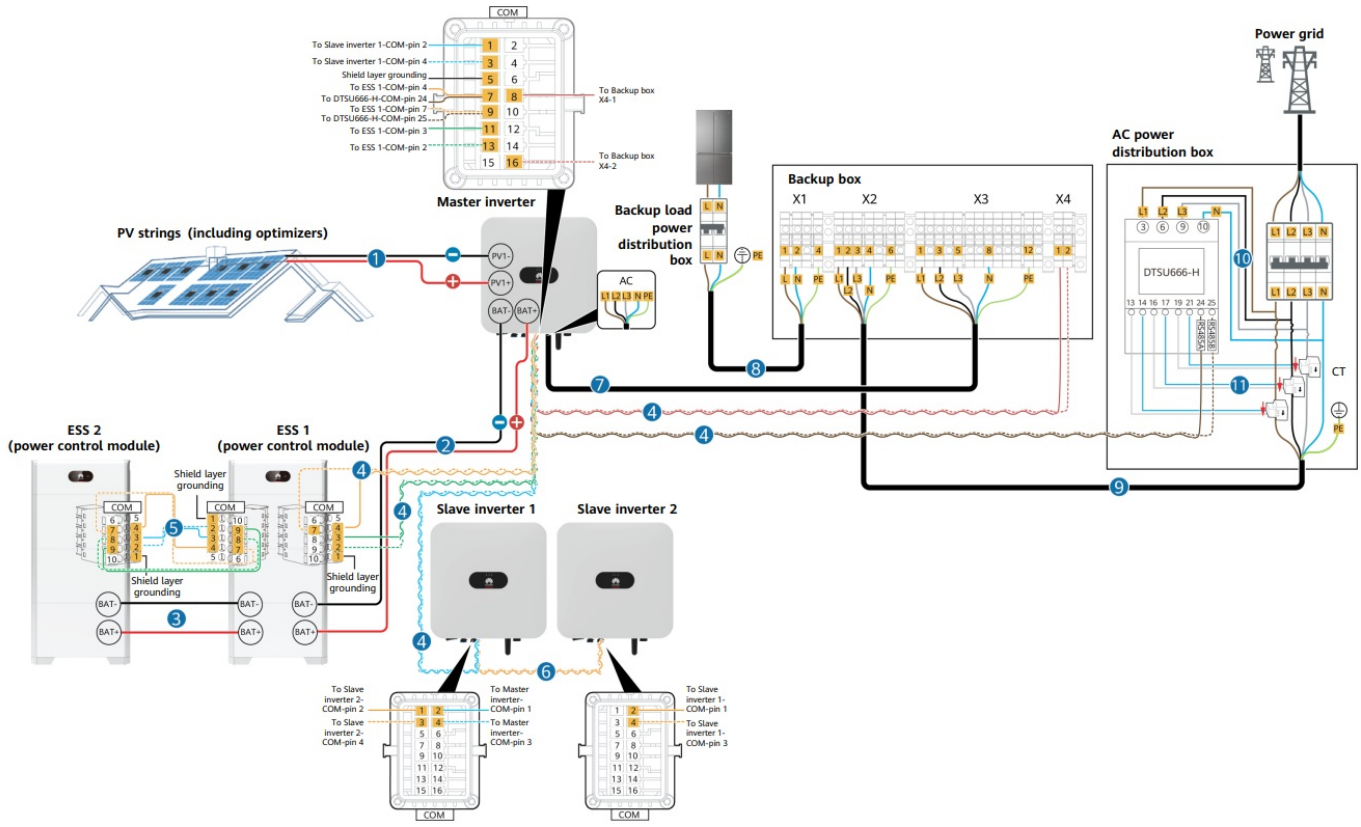
Solution Wiring Diagram

DANGER
Before connecting cables, ensure that all switches are OFF. Otherwise, electric shocks may occur.

NOTICE
Signal cables must be outdoor shielded twisted pair cables.

The wiring sequence of the Backup box must be consistent with that of the inverter AC terminals.

Connect other cables to slave inverters by referring to the connection method for the master inverter.



Cable Type.	No.	One End		The Other End	
		Component	Port	Port	Component
DC power cable		Master inverter	PV1+	Positive terminal	PV strings
			PV1-	Negative terminal	
		Master inverter	BAT+	BAT+	ESS 1
			BAT-	BAT-	
		ESS 1	BAT+	BAT+	ESS 2
			BAT-	BAT-	
Signal cable		Master inverter	COM	COM (right)	ESS 1
				COM	Slave inverter 1
				RS485	DTSU666-H
				X4	Backup box
		ESS 2	COM (right)	COM (left)	ESS 1
		Slave inverter 1	COM-1	COM-2	Slave inverter 2
			COM-3	COM-4	
AC power cable		Master inverter	AC-L1	X3-1 (L1)	Backup box
			AC-L2	X3-3 (L2)	
			AC-L3	X3-5 (L3)	
			AC-N	X3-8 (N)	
			AC-PE	X3-12 (PE)	

AC power cable		Backup load power distribution box	L	X1-1	Backup box
			N	X1-2	
			PE	X1-4	
		AC power distribution box	L1	X2-1	Backup box
			L2	X2-2	
			L3	X2-3	
			N	X2-4	
			PE	X2-6	
		AC power distribution box	L1	3	DTSU666-H
			L2	6	
			L3	9	
			N	10	
		AC power distribution box	L1	13	DTSU666-H CT
				14	
			L2	16	
				17	
			L3	19	
				21	

FAQ

What type of cables should be used for the connections?

Signal cables must be outdoor shielded twisted pair cables for proper functioning and safety.

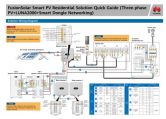
How should I connect the Backup box to the inverter AC terminals?

The wiring sequence of the Backup box must match that of the inverter AC terminals to ensure correct connection.

What precautions should I take before connecting cables?

Make sure all switches are OFF to prevent electric shocks while connecting the cables.

Documents / Resources

	HUAWEI Three Phase PV+LUNA2000+Smart Dongle Networking [pdf] User Guide EL, LUNA2000, Smart Dongle, Three Phase PV LUNA2000 Smart Dongle Networking, PV LUN A2000 Smart Dongle Networking, Dongle Networking, Networking

References

- User Manual