

FusionSolar Smart PV Residential Solution Quick Guide (Three-phase PV+LUNA2000+Smart Dongle Networking)



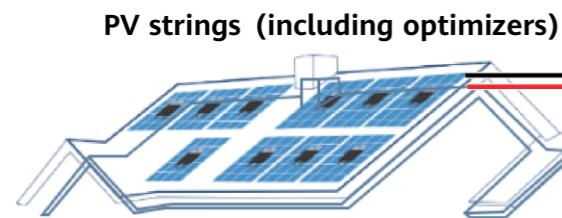
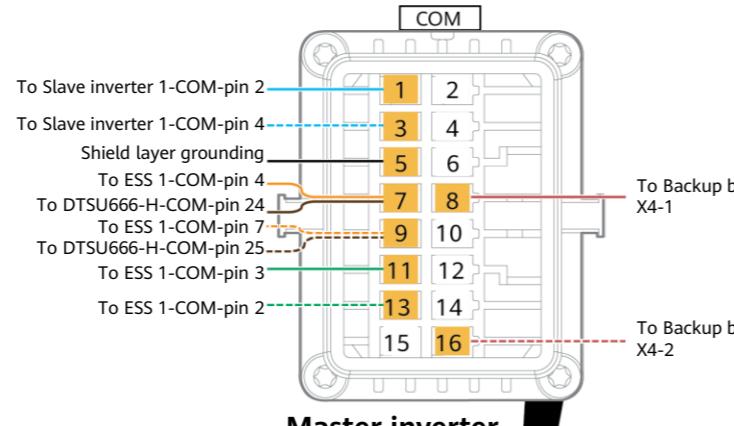
Solution Wiring Diagram

DANGER

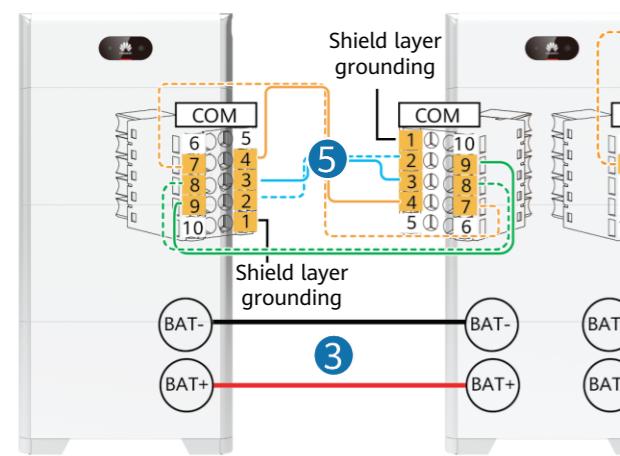
Before connecting cables, ensure that all switches are OFF. Otherwise, electric shocks may occur.

NOTICE

Signal cables must be outdoor shielded twisted pair cables.

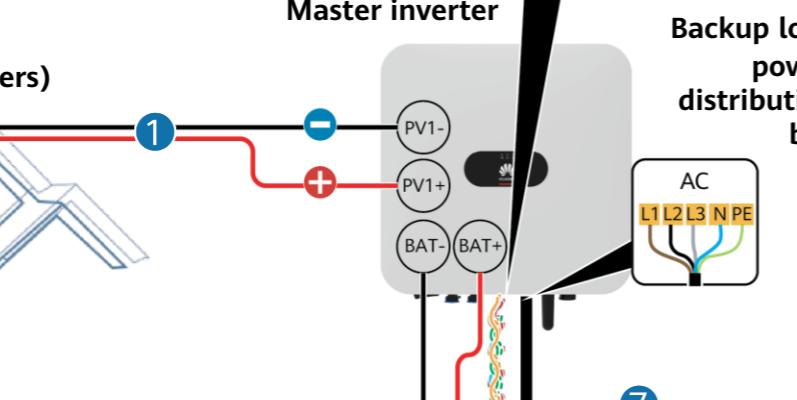


ESS 2
(power control module)



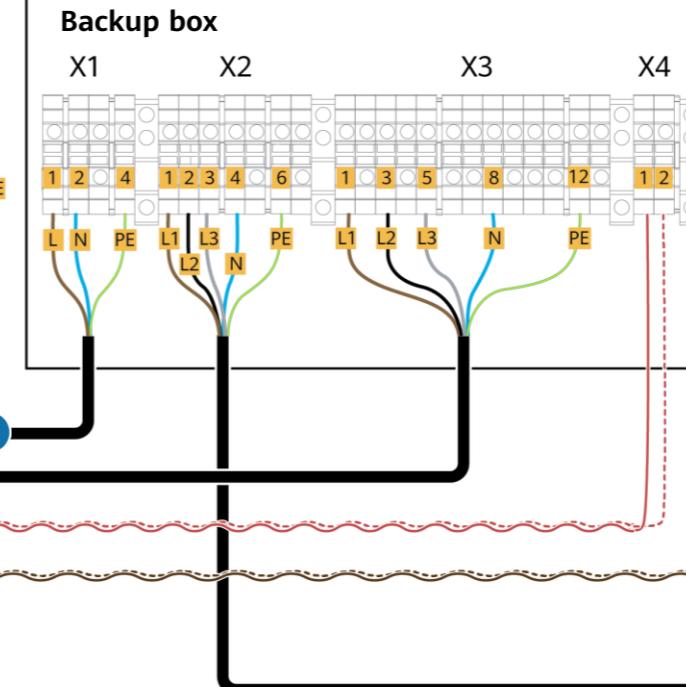
NOTICE

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

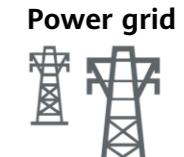
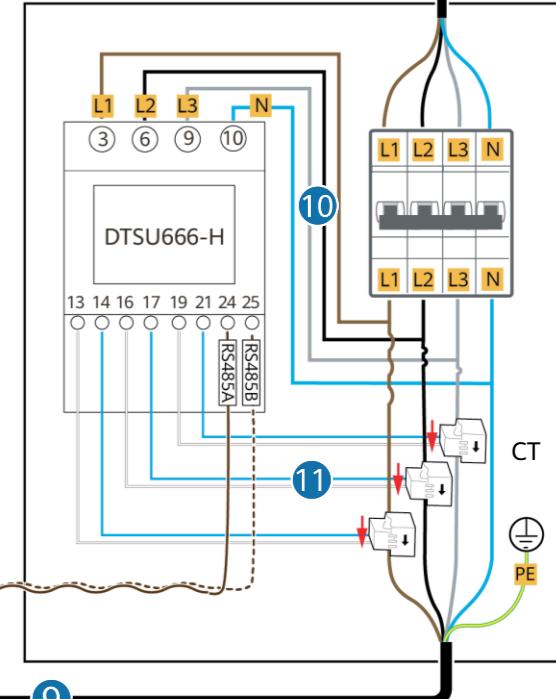


NOTICE

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



AC power distribution box



Cable Type.	No.	One End		The Other End		Cable Type.	No.	One End		The Other End	
		Component	Port	Port	Component			Component	Port	Port	Component
DC power cable	1	Master inverter	PV1+	Positive terminal	PV strings	AC power cable	8	Backup load power distribution box	L	X1-1	
	2	Master inverter	BAT+	BAT+	ESS 1		9	AC power distribution box	N	X1-2	
	3	ESS 1	BAT+	BAT+	ESS 2		10	AC power distribution box	PE	X1-4	Backup box
Signal cable	4	Master inverter	COM (right)		ESS 1	AC power cable	11	AC power distribution box	L1	X2-1	
	5		COM		Slave inverter 1		12		L2	X2-2	
	6		RS485	DTSU666-H			13		L3	X2-3	
AC power cable	7	ESS 2	COM (right)	COM (left)	ESS 1		14		N	X2-4	
	8	Slave inverter 1	COM-1	COM-2	Slave inverter 2		15		PE	X2-6	
	9	Slave inverter 1	COM-3	COM-4			16		L1	3	DTSU666-H
AC power cable	10	Master inverter	AC-L1	X3-1 (L1)		AC power cable	17		L2	6	
	11	Master inverter	AC-L2	X3-3 (L2)			18		L3	9	
	12	Master inverter	AC-L3	X3-5 (L3)			19		N	10	
AC power cable	13	Master inverter	AC-N	X3-8 (N)			20		PE	13	
	14	Master inverter	AC-PE	X3-12 (PE)			21		L2	14	
	15	Master inverter							L3	17	
AC power cable	16	Master inverter							L2	16	
	17	Master inverter							L3	19	
	18	Master inverter							N	21	
AC power cable	19	Master inverter							PE	20	
	20	Master inverter							L1	13	
	21	Master inverter							L2	14	
AC power cable	22	Master inverter							L3	17	
	23	Master inverter							N	19	
	24	Master inverter							PE	21	