

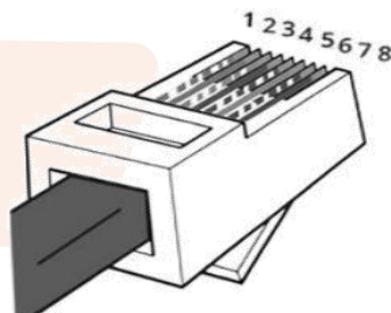
Communication Guide for Felicity Battery and Growatt Inverter

CAN Matched Hybrid Inverter Brands			
Brand	Model	Communication protocol	Cable Supply
Growatt	SPF 3500 - 5000 ES	CAN	RJ45
	SPF 6000 ES Plus		

(1) The corresponding communication pins are defined in the following table. You can make communication cables according to this table.

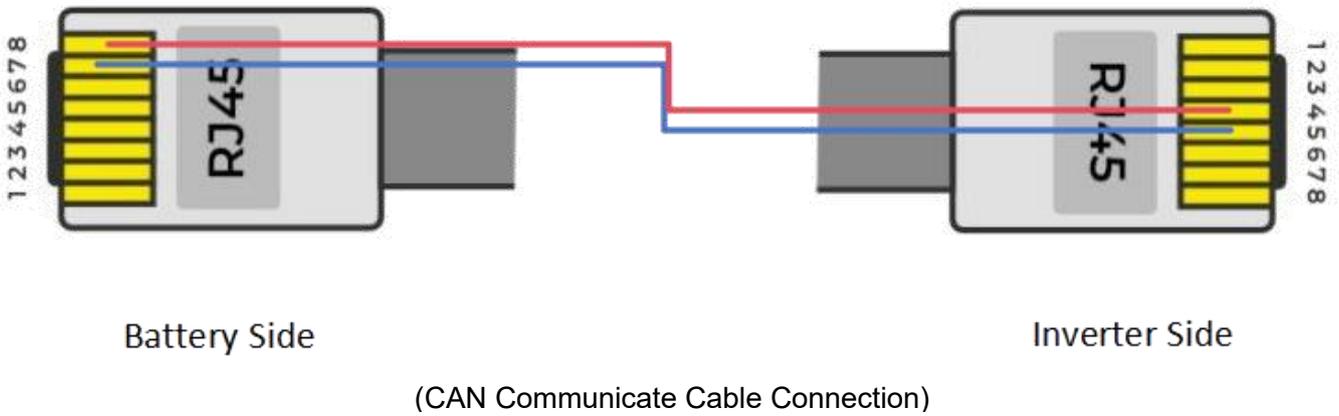
Model	Felicity EC and LPBA48100-OL (LUX-E-48100LG04)	FelicityESS other low voltage model batteries	Growatt
CAN_L	Pin7	Pin3	Pin5
CAN_H	Pin8	Pin4	Pin4

(Order of Communication Cable)

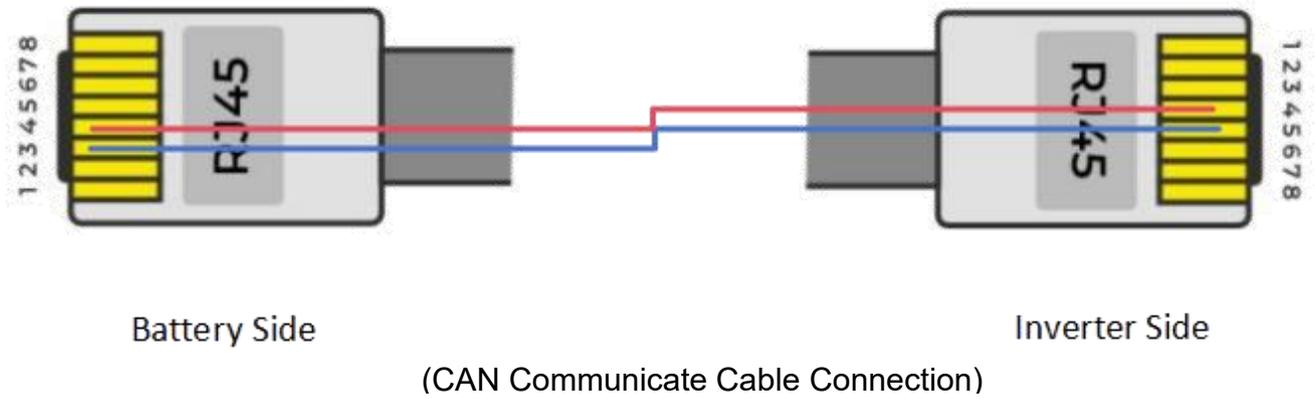


(RJ45 Pin Sequence)

Felicity EC and LPBA48100-OL (LUX-E-48100LG04)



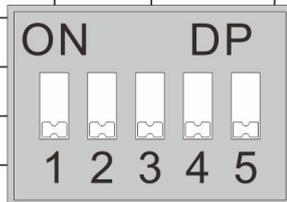
FelicityESS other model batteries



(2) Set the battery DIP switch according to the table below.

Parallel DIP Switch

No.of BAT	1	2	3	4	5	6	7	8	9	10	11	12
1PCS	1,5 ON											
2PCS	1,5 ON	2,5 ON										
3PCS	1,5 ON	2 ON	1,2,5ON									
4PCS	1,5 ON	2 ON	1,2 ON	3,5ON								
5PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5ON							
6PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3,5ON						
7PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3,5ON					
8PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4,5ON				
9PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4,5ON			
10PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4,5ON		
11PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4,5ON	
12PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4,ON	3,4,5ON



Note: The inverter needs to be connected to the first battery, that is, the battery pack with the 1,5 ON.

Note: The setting takes effect only after the battery is restarted

(3) Follow the instructions below to set up the inverter

05	Battery type	AGM (default) bAtt AG 005°
		Flooded bAtt FL 005°
		Lithium (only suitable when communicated with BMS) bAtt LI 005°
		User-Defined bAtt USE 005° If "User-Defined" is selected, battery charge voltage and low DC cut-off voltage can be set up in program 19, 20 and 21.
		User-Defined 2 (suitable when lithium battery without BMS communication) bAtt US2 005° If "User-Defined 2" is selected, battery charge voltage and low DC cut-off voltage can be set up in program 19, 20 and 21. It is recommended to set to the same voltage in program 19 and 20(full charging voltage point of lithium battery). The inverter will stop charging when the battery voltage reaches this setting.



36	RS485 Communication protocol	Protocol 1	PtCL L01 036 ⁰
		Protocol 2	PtCL L02 036 ⁰
		.	.
		.	.
	CAN Communication protocol	Protocol 50	PtCL L50 036 ⁰
		Protocol 51	PtCL L51 036 ⁰
		Protocol 52	PtCL L52 036 ⁰
		.	.
		.	.
		Protocol 99	PtCL L99 036 ⁰

(4) After successful communication, you can see the battery information on the display screen.

