

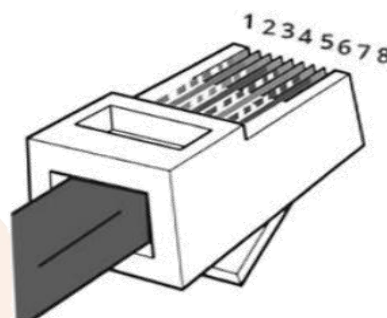
Communication Guide for Felicity Battery and Growatt Inverter

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

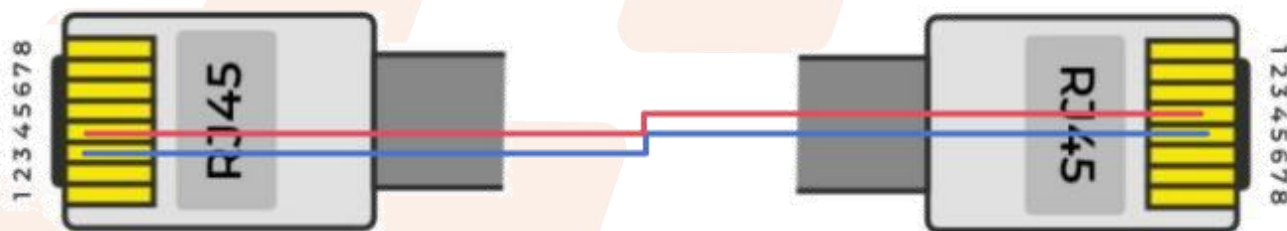
- (1) The corresponding communication pins are defined in the following table. You can make communication cables according to this table.

	FelicityESS	Growatt
CAN_L	Pin3	Pin5
CAN_H	Pin4	Pin4

(Order of Communication Cable)



(RJ45 Pin Sequence)



Battery Side

Inverter Side

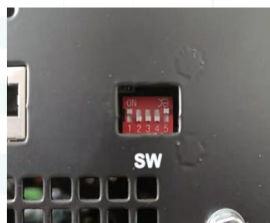
(CAN Communicate Cable Connection)

(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
1 PCS	1,5 ON											
2 PCS	1,5 ON	2,5 ON										
3 PCS	1,5 ON	2 ON	1,2,5 ON									
4 PCS	1,5 ON	2 ON	1,2 ON	3,5 ON								
5 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5 ON							
6 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3, 5 ON						
7 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3,5 ON					
8 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4,5 ON				
9 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4 ON	1,4,5 ON			
10 PCS	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	2,4,5 ON		
11 PCS	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	1,2,4,5 ON	
12 PCS	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	3,4,5 ON



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 AGM 005
		Flooded	BATT FLD 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.	
36	RS485 Communication protocol	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 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
		Protocol 2	PtCL L02 036
		.	.
		.	.
		Protocol 50	PtCL L50 036
	CAN Communication protocol	Protocol 51	PtCL L51 036
		Protocol 52	PtCL L52 036
		.	.
		.	.
		Protocol 99	PtCL L99 036

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