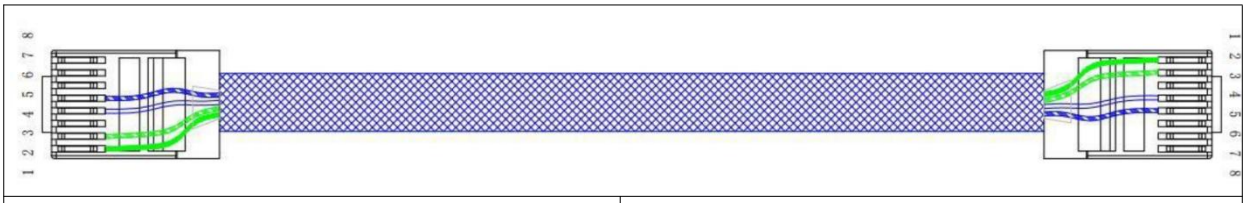
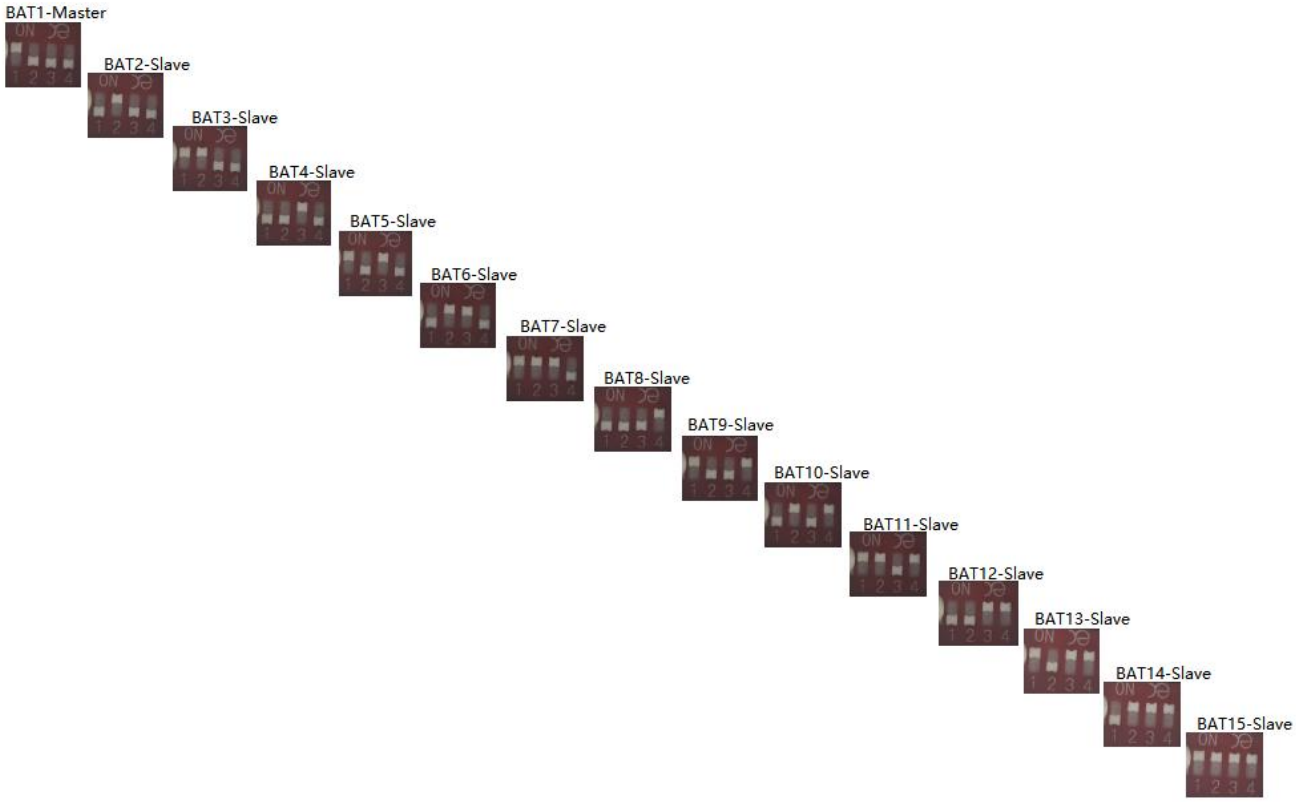
EITAI Battery connects with Growatt SPF5000ES/6000ES

1. Definition of battery and inverter communication pins:



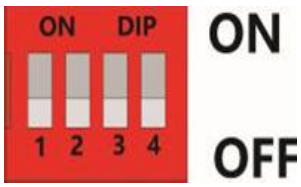
Battery		Inverter	
Pin1	RS485B	Pin1	RS485B
Pin2	RS485A	Pin2	RS485A
Pin3	NC	Pin3	NC
Pin4	CANH	Pin4	CANH
Pin5	CANL	Pin5	CANL
Pin6	NC	Pin6	NC
Pin7	RS485A	Pin7	RS485A
Pin8	RS485B	Pin8	RS485B

2. Battery ADS dial setting:



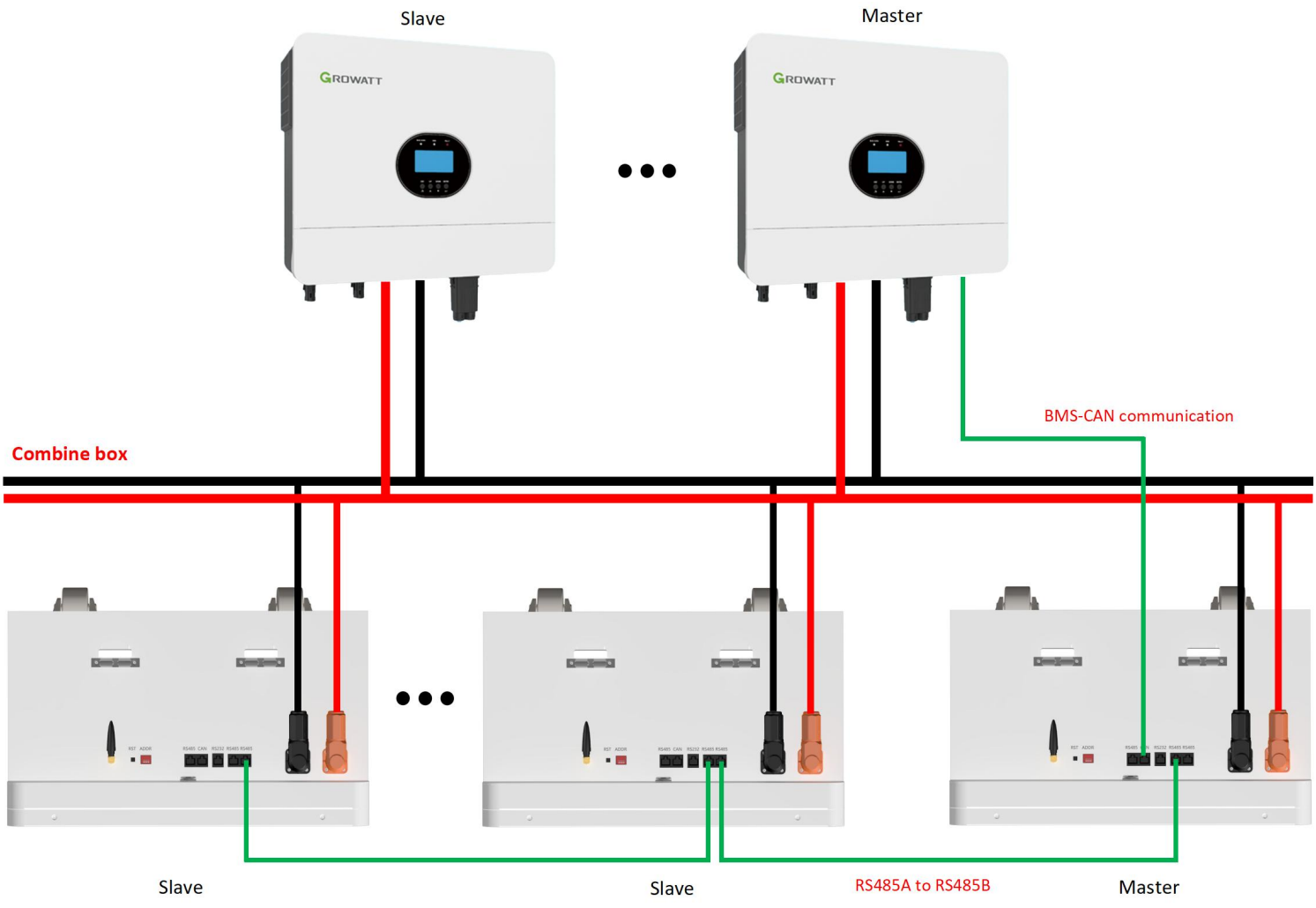
The dial-up address table is as follows：

Dial-up code location				Add	Dial-up code location				Add	Dial-up code location				Add	Dial-up code location				Add
#1	#2	#3	#4		#1	#2	#3	#4		#1	#2	#3	#4		#1	#2	#3	#4	
0	0	0	0	X	0	0	1	0	4	0	0	0	1	8	0	0	1	1	12
1	0	0	0	1	1	0	1	0	5	1	0	0	1	9	1	0	1	1	13
0	1	0	0	2	0	1	1	0	6	0	1	0	1	10	0	1	1	1	14
1	1	0	0	3	1	1	1	0	7	1	1	0	1	11	1	1	1	1	15



Schematic diagram of the dial-up switch

The DIP switch is used to set the BMS address of each battery. The code value of the switch to the ON position is 1, the code value of the switch to the 1234 position is 0, the host battery address is 1, and the slave battery address is 2 to 15. (The host is connected to the inverter, and the slave machines are arranged in numerical order according to the address)



3. Connecting inverter(BMS port) to battery (CAN port);

4. Inverter communication setting:

4.1 LCD screen setting:



4.2 ENTER+DOWN/UP to set 05 code, choose LI (Lithium type);



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.
		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.

4.3 ENTER+DOWN/UP to set 36 code, choose L52 protocol;

	CAN Communication protocol	Protocol 51	PtCL L51 036
		Protocol 52	PtCL L52 036
		. . .	. . .
		Protocol 99	PtCL L99 036



4.4 Press ESC and waiting for the communication been done.

