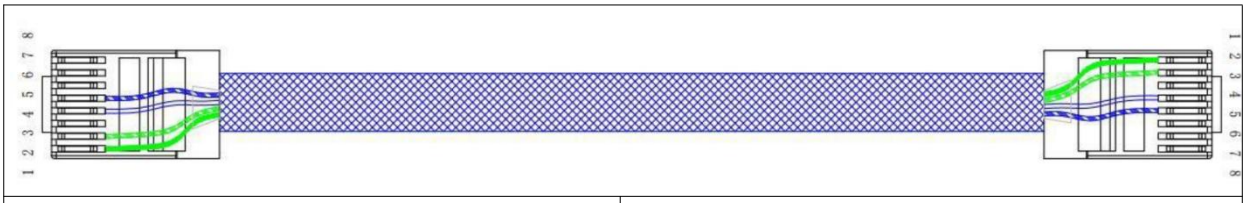
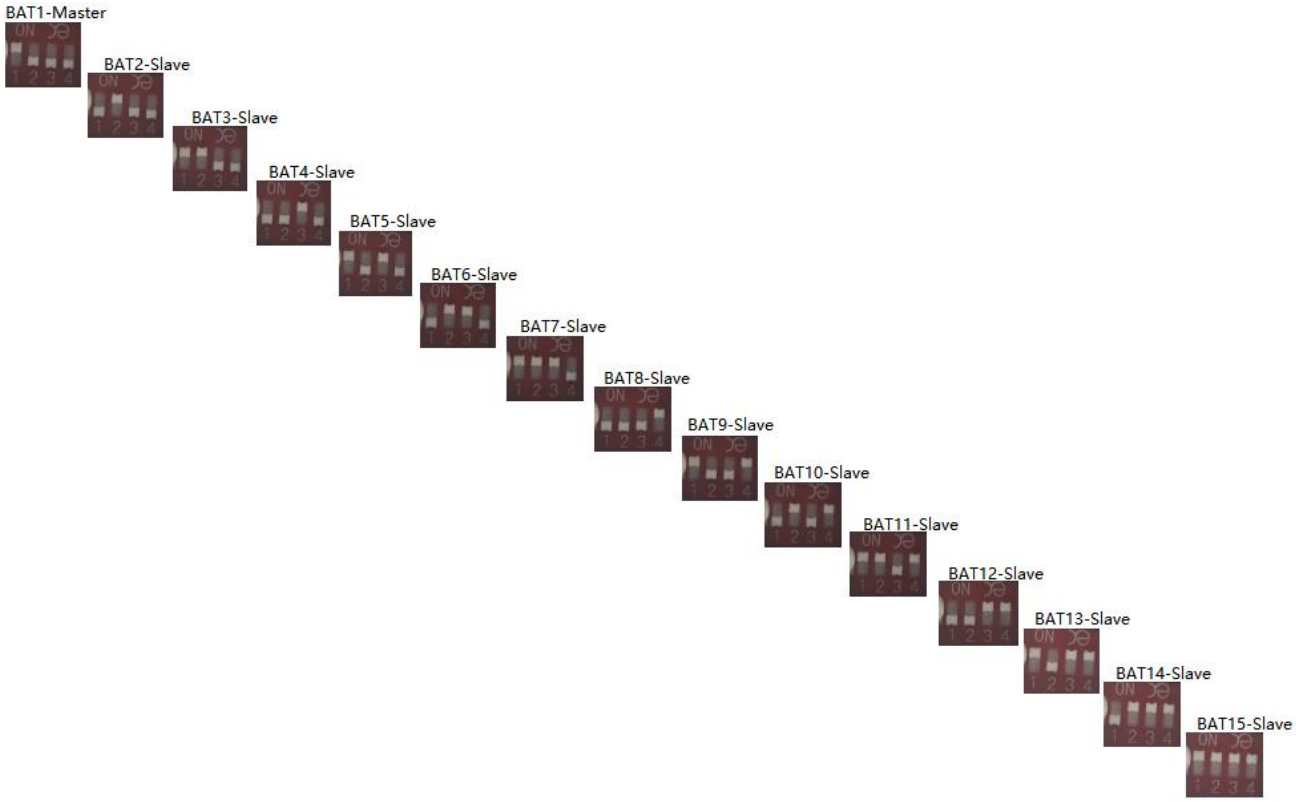
EITAI Battery connects with DEYE inverter

1. Definition of battery and inverter communication pins:



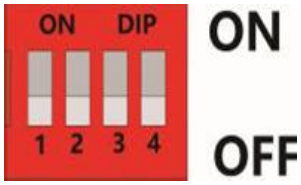
Battery		Inverter	
Pin1	RS485B	Pin1	RS485B
Pin2	RS485A	Pin2	RS485A
Pin3	NC	Pin3	NC
Pin4	CANH	Pin4	CANH
Pin5	CANL	Pin5	CANL
Pin6	NC	Pin6	NC
Pin7	RS485A	Pin7	RS485A
Pin8	RS485B	Pin8	RS485B

2. Battery ADS dial setting:



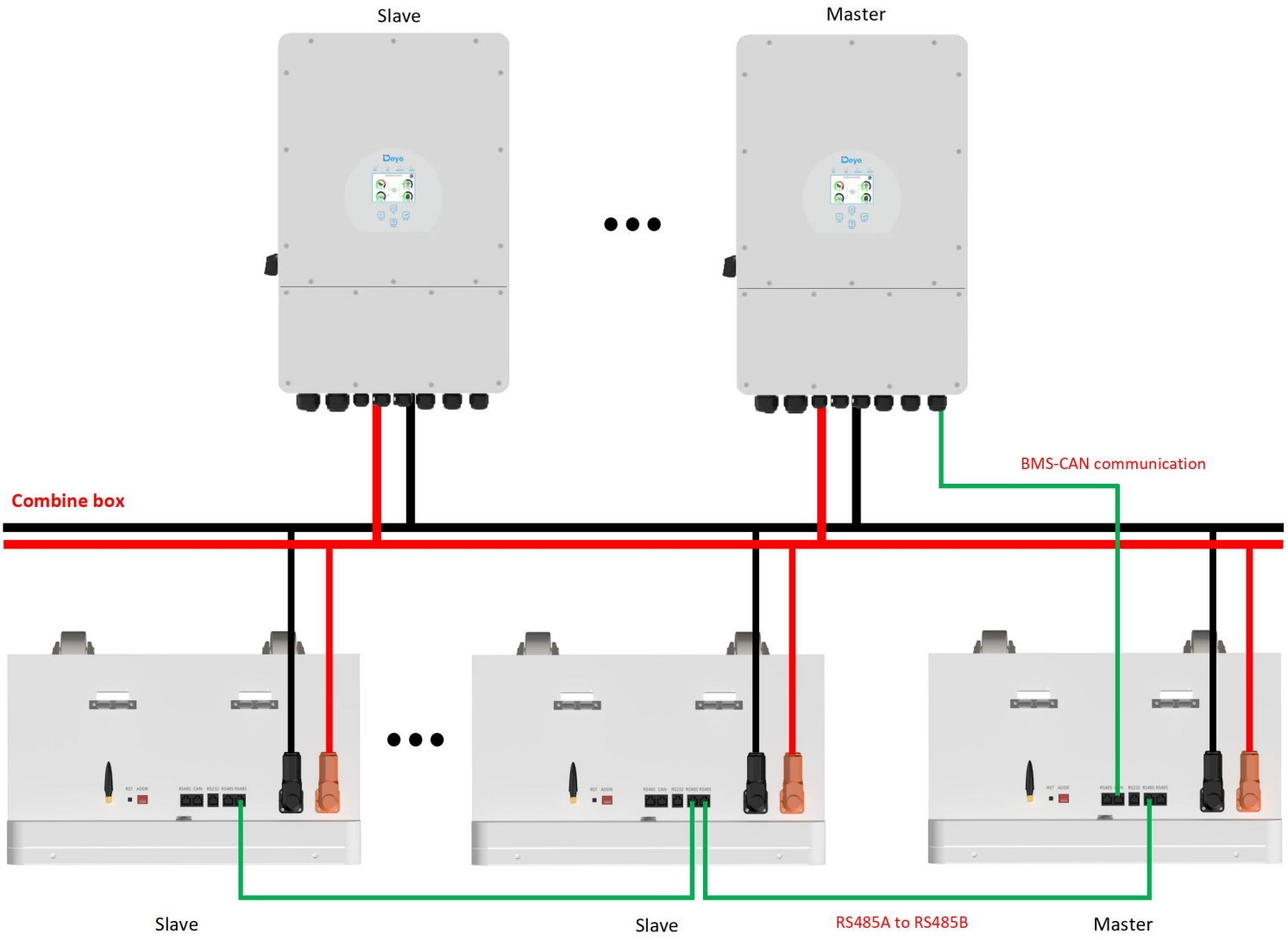
The dial-up address table is as follows：

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

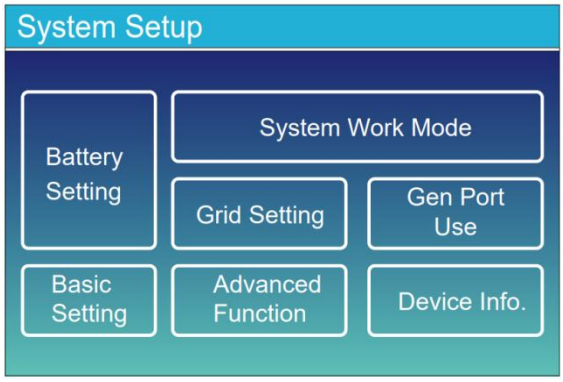
The DIP switch is used to set the BMS address of each battery. The code value of the switch to the ON position is 1, the code value of the switch to the 1234 position is 0, the host battery address is 1, and the slave battery address is 2 to 15. (The host is connected to the inverter, and the slave machines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



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

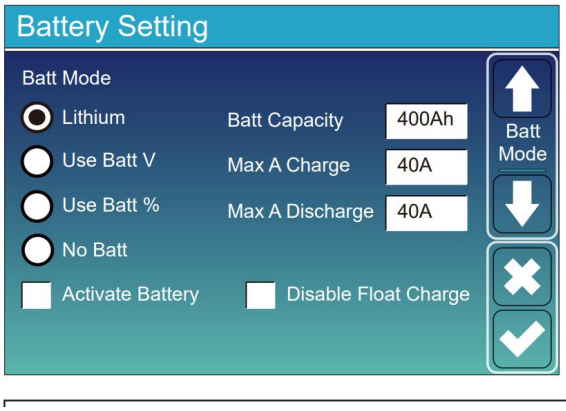
4. Inverter communication setting:

4.1 Press the LCD screen setting page.



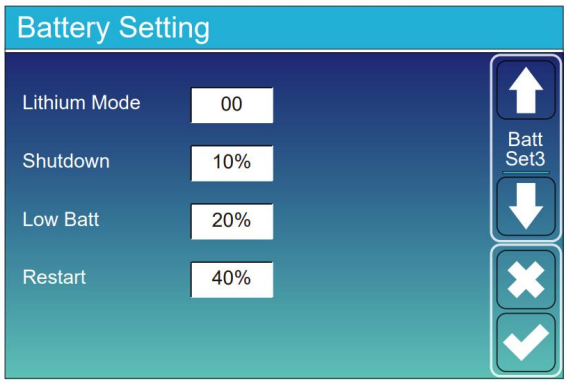
This is System Setup page.

4.2 Press Battery Setting, enter the battery setting page, choose battery model LITHIUM.



Battery capacity: it tells Deye hybrid inverter to know your battery bank size.
Use Batt V: Use Battery Voltage for all the settings (V).
Use Batt %: Use Battery SOC for all the settings (%).
Max. A charge/discharge: Max battery charge/discharge current(0-120A for 5kW model, 0-135A for 6kW model, 0-190A for 7.6/8kW model).
For AGM and Flooded, we recommend Ah battery size x 20%= Charge/Discharge amps.
. For Lithium, we recommend Ah battery size x 50% = Charge/Discharge amps.
. For Gel, follow manufacturer' s instructions.
No Batt: tick this item if no battery is connected to the system.

4.3 Lithium mode choose 00 protocol;



Lithium Mode: This is BMS protocol.Please reference the document(Approved Battery).

Shutdown 10%: It indicates the inverter will shutdown if the SOC below this value.

Low Batt 20%: It indicates the inverter will alarm if the SOC below this value.

Restart 40%: Battery voltage at 40% AC output will resume.

4.4 After lithium mode communication done, BMS will upload the running data as shown below:

