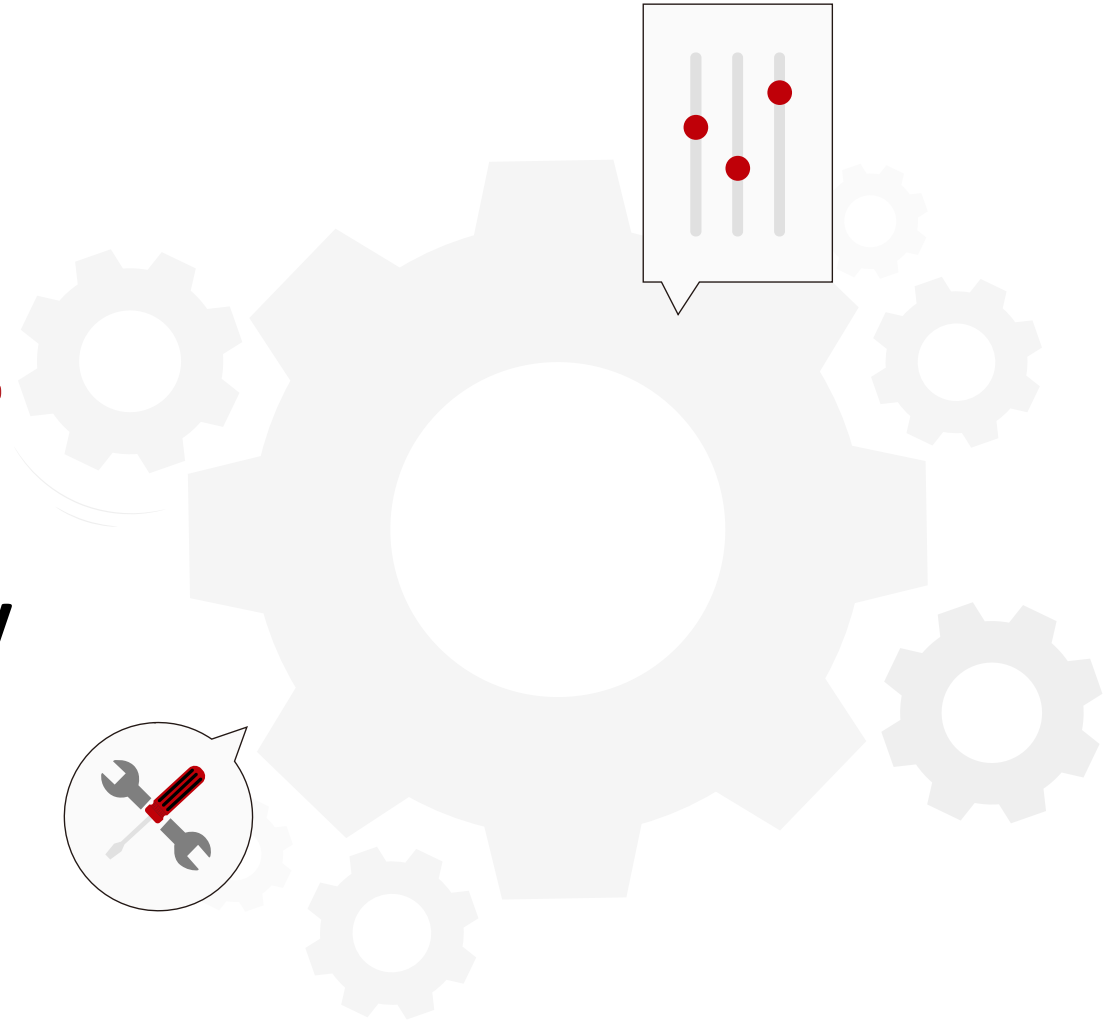




QUICK START MANUAL

Connect MOTOMA Lithium Battery
with **Growatt** inverter



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BMS communication protocol cable



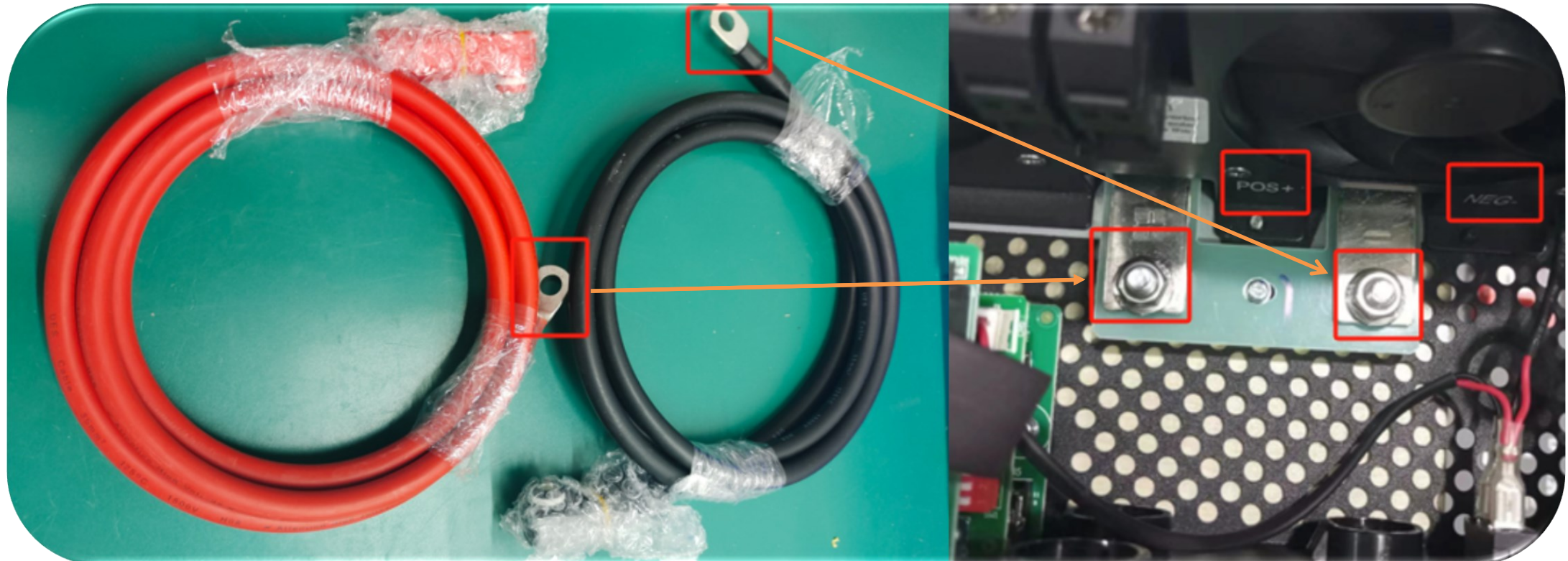
Growatt Inverter



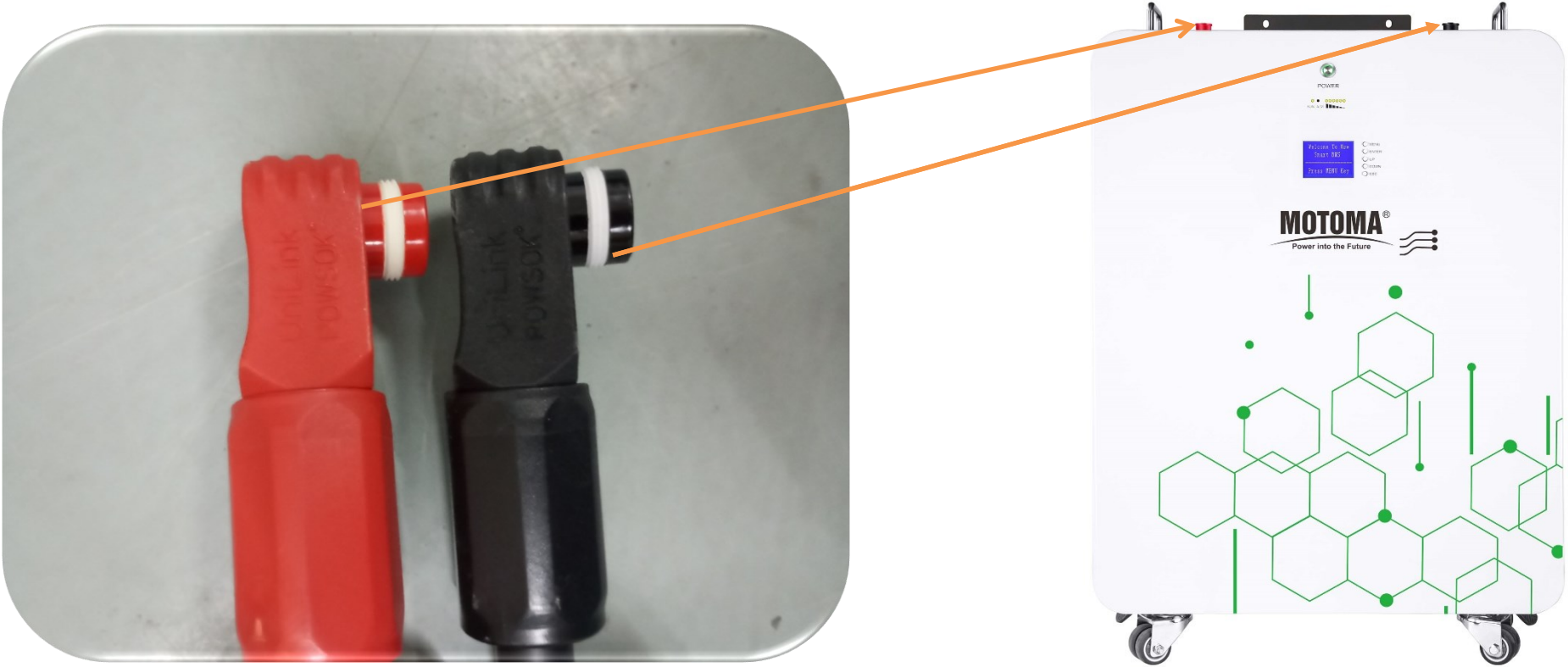
Motoma Lithium Battery

❖ **Power cables wiring operation :**

Connect the positive and the negative cable to inverter correctly.

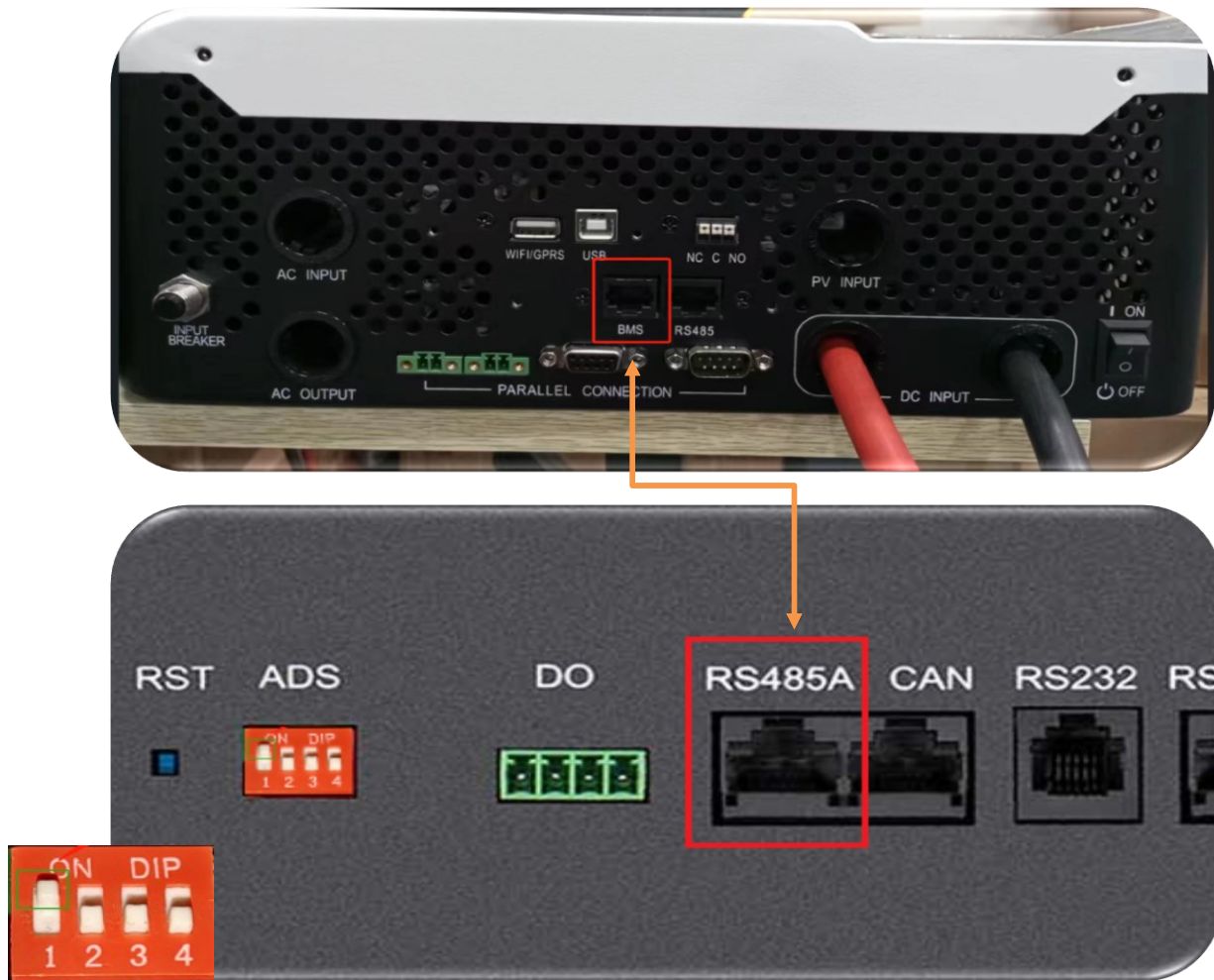


Connect the positive and the negative cable to battery correctly.



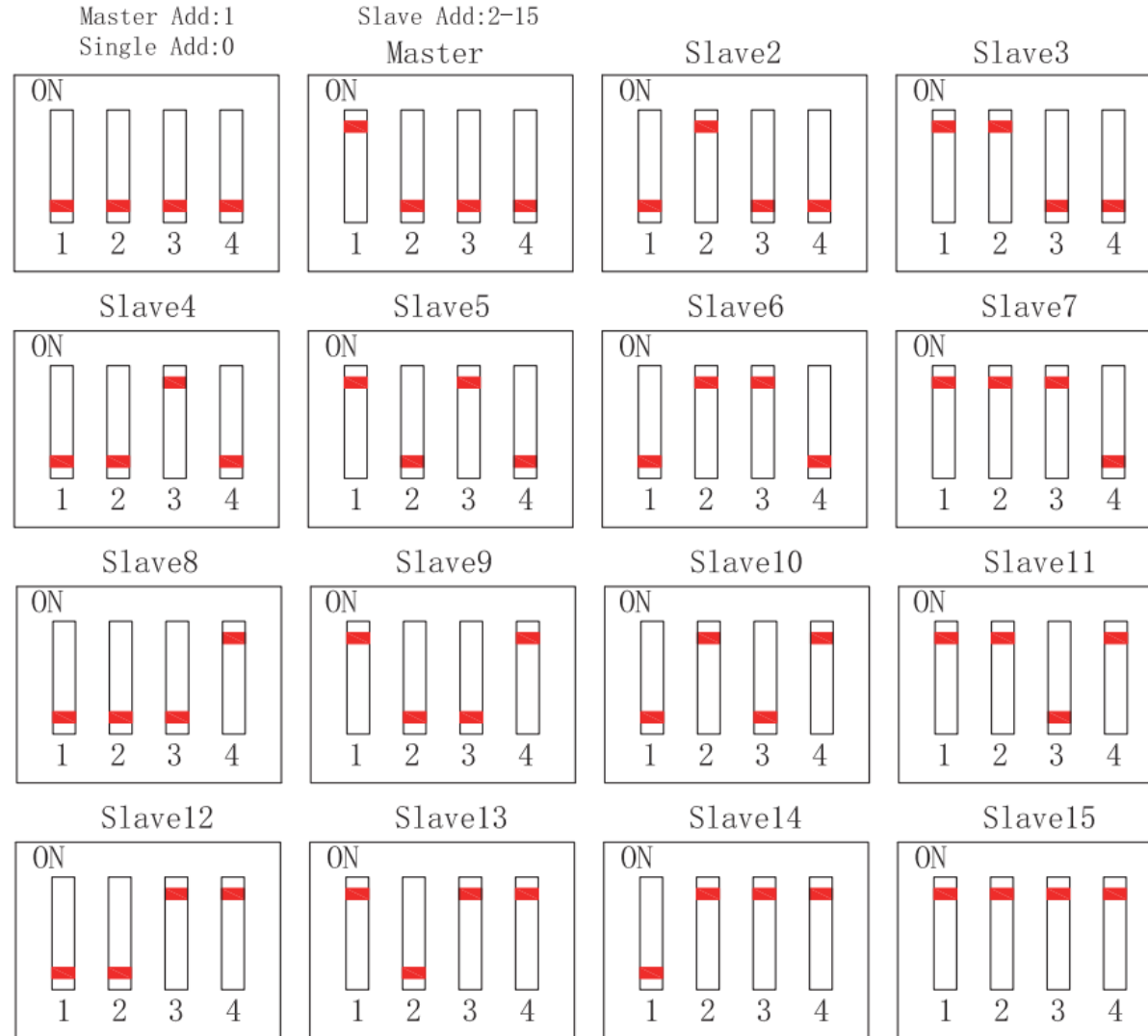
❖ BMS Cable wiring operation :

Connect one end of the standard communication cable to the “BMS” of the inverter; the other end of the cable is connected to the “RS485A” port of the battery. For a single battery, set the ADS switch to position 1 (wrong setting may result in the communication issues). If two units are used in parallel, set the master to position 1, and the slave to position 2



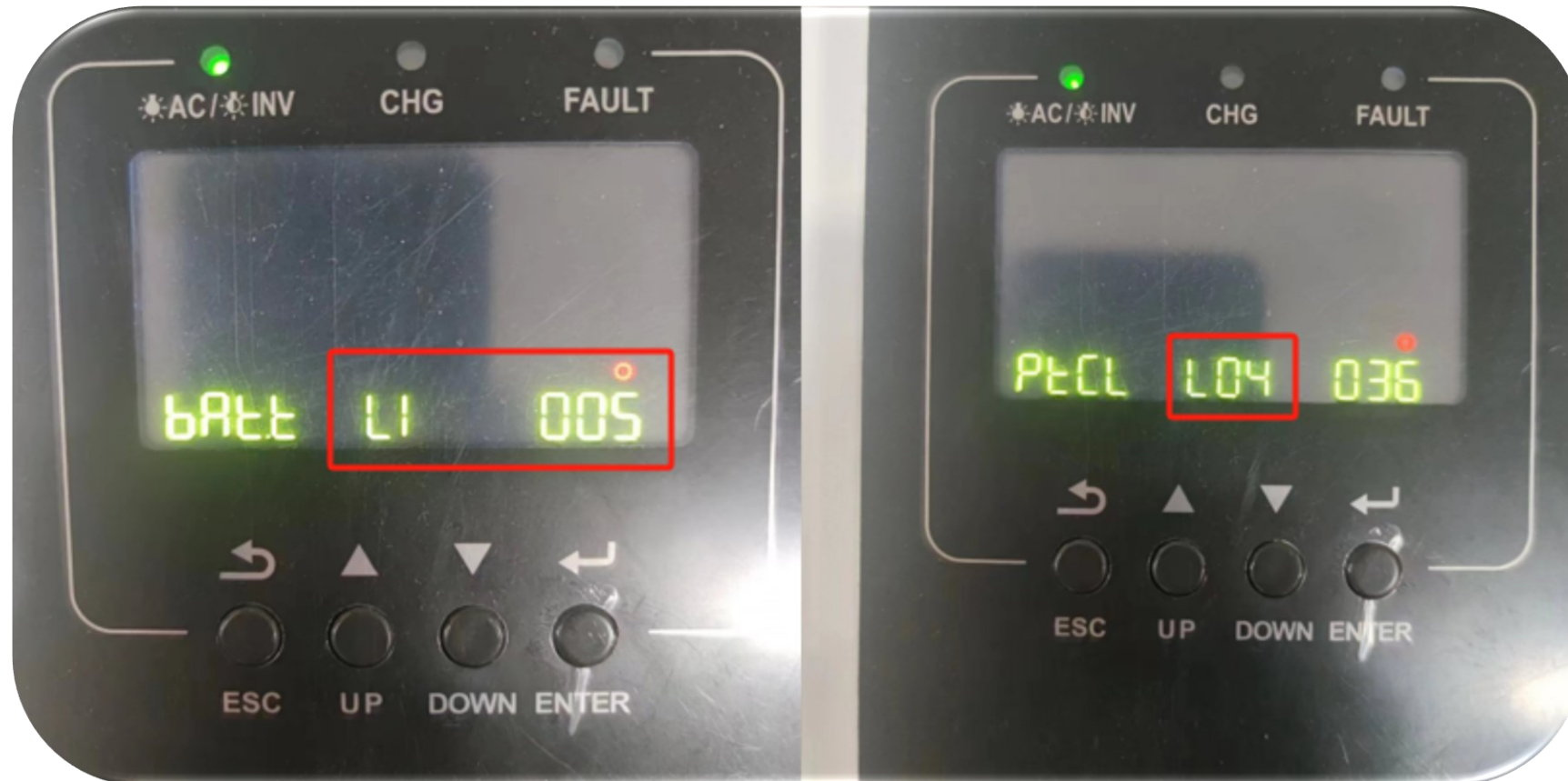
BMS Communication Cable

❖ DIP switch positions :



❖ Inverter Setting Communication Procedure :

Turn on the power of battery and inverter, enter the operation interface of inverter, 005 choose "LI" and enter the "LI" operation interface, then choose "L04". Do not choose wrong parameter , otherwise the connection will be failed.



- ❖ Exit the operation interface after setting 005 successfully, the battery does not report "04!" in one minute, means the communication is successful. LCD interface as shown below, check these parameters: Voltage , SOC and Temperature, which are consistent with the battery specification(the discrepancy is slightly different).



❖ Communication Protocol Definition

❖ BMS Pin Definition

RS485- RJ45	8P8C RJ45	RJ45	CAN-- RJ45	8P8C RJ45
1、 8		RS485-B1	9、 10、 11、 14、 16	NC
2、 7		RS485-A1	12	CANL
3、 6		GND	13	CANH
4、 5		NC	15	GND

CAN RS485

RS485- RJ45	8P8C RJ45	RJ45	RS485-- RJ45	8P8C RJ45
1、 8		RS485-B	9、 16	RS485-B
2、 7		RS485-A	10、 15	RS485-A
3、 6		GND	11、 14	GND
4、 5		NC	12、 13	NC

❖ Inverter Pin Definition

Pin number	RS485 port	CAN port
1	RS485B	--
2	RS485A	--
3	--	--
4	--	CANH
5	--	CANL
6	--	--
7	--	--
8	--	--

