

Communication Guide for Deye Inverter & Ho01/04 BMS

—Take the SUN-5K-SG04LP3-EU inverter model as an example

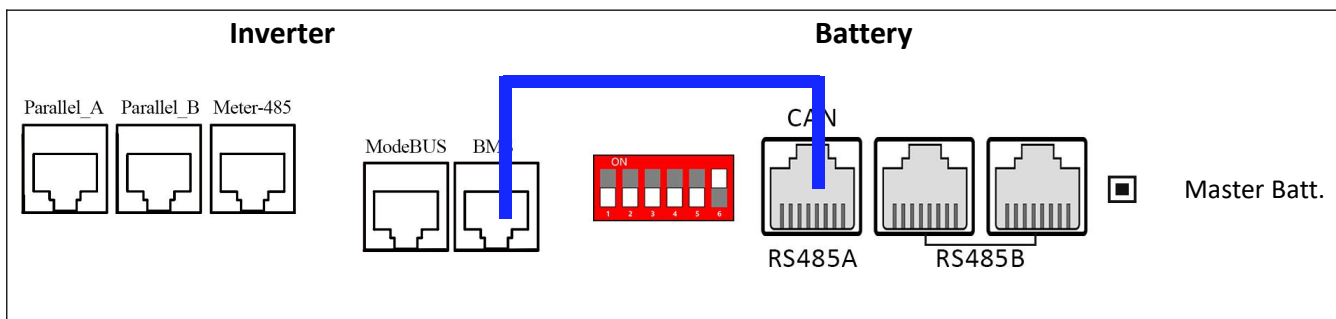
● When only one battery

The battery is the master battery.

1. Use a normal RJ45 communication cable to connect the ***BMS communication port** (or BMS CAN communication port) of the inverter to the CAN communication port of the master battery.

***BMS communication port:** For different inverter models, the BMS communication Port port may be in different locations, please refer to the corresponding inverter user manual.

2. Please see the battery dip switch settings and communication cable wiring diagram below.

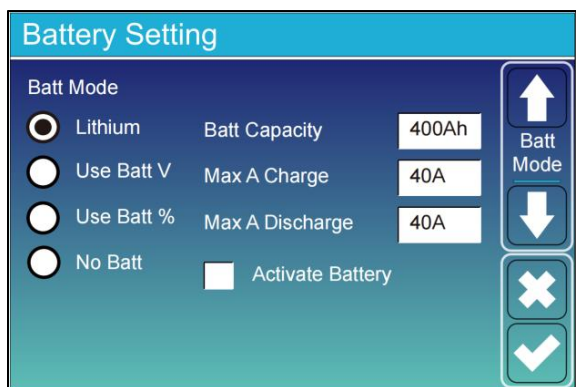


3. Inverter setting:

Main screen - System Setup - Battery Setting

Batt Mode - Lithium

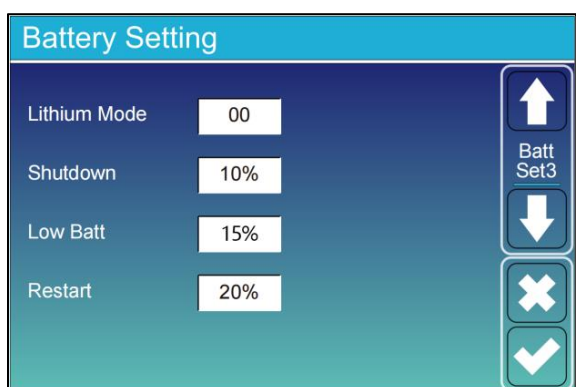
Batt Set3 - Lithium Mode 00, Shut Down 10%, Low Batt 15%, Restart 20%.



Batt Capacity:
It tells Deye hybrid inverter to know your battery bank size.

Max. A charge/discharge:
For Lithium, we recommend Ah battery size * 20% = Charge amps.
Ah battery size * 50% = Discharge amps.

Activate battery:
This feature will help recover a battery that is over discharged by slowly charging from the solar array or grid.



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 15%:
It indicates the inverter will alarm if the SOC below this value.

Restart 20%:
Battery voltage at 20% AC output will resume.

● **When multiple batteries are parallel (E.g., 16 units)**

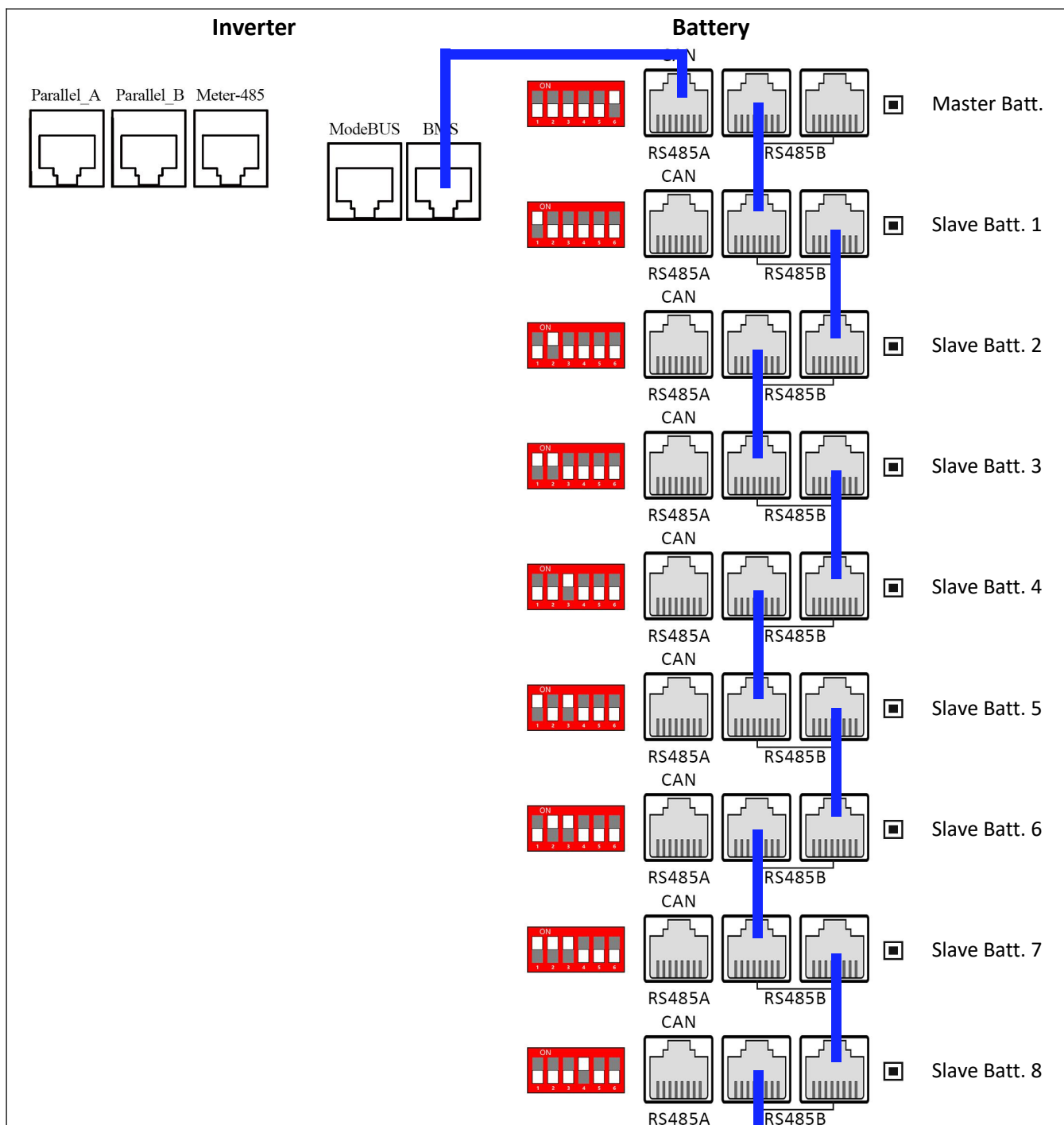
There is one master battery and the rest are slave batteries.

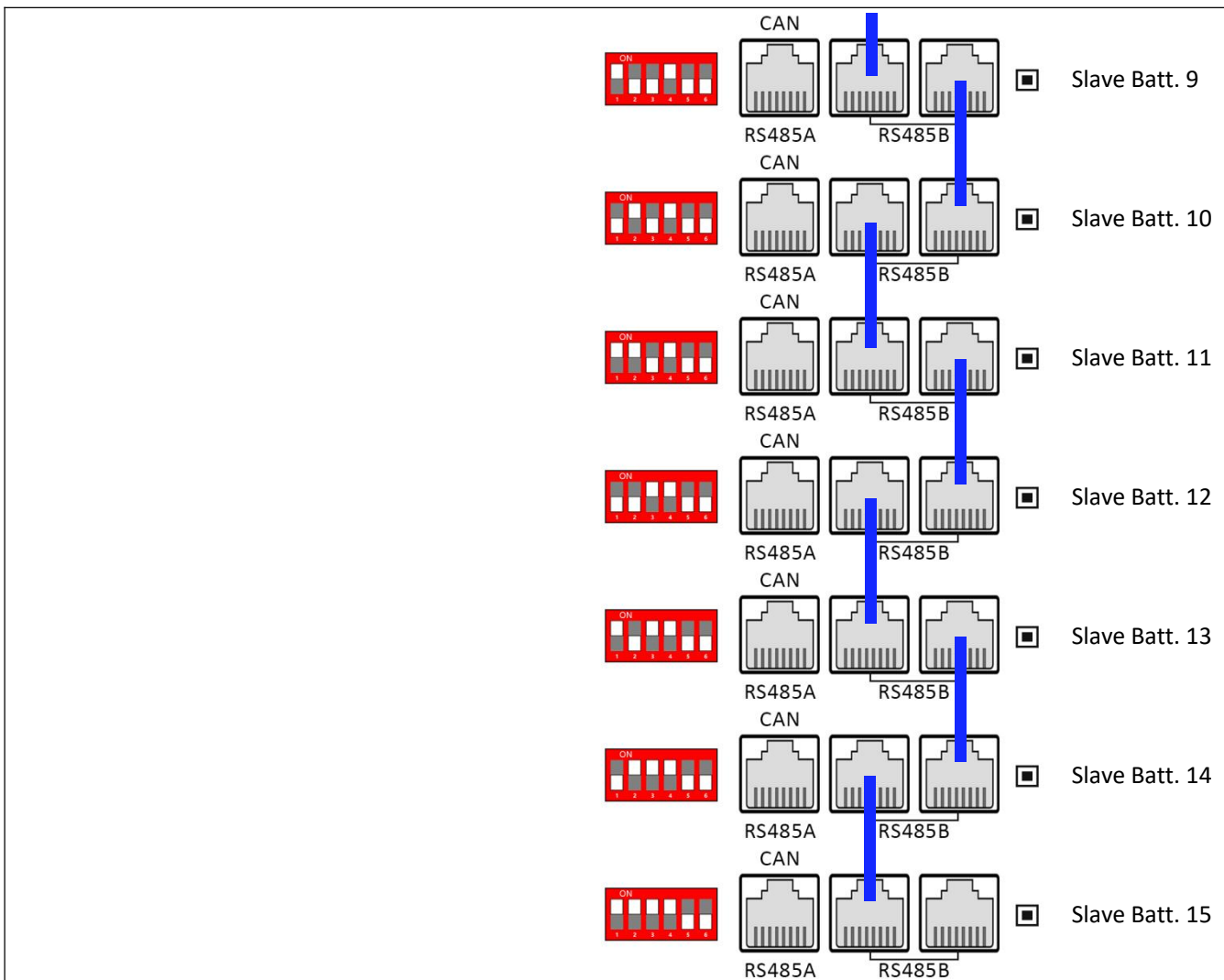
1. Use a normal RJ45 communication cable to connect the ***BMS communication port** (or BMS CAN communication port) of the inverter to the CAN communication port of the master battery.

Use the parallel communication cable (normal RJ45 cable) to connect all the batteries via RS485B port.



2. Please see the battery dip switch settings and communication cable wiring diagram below.



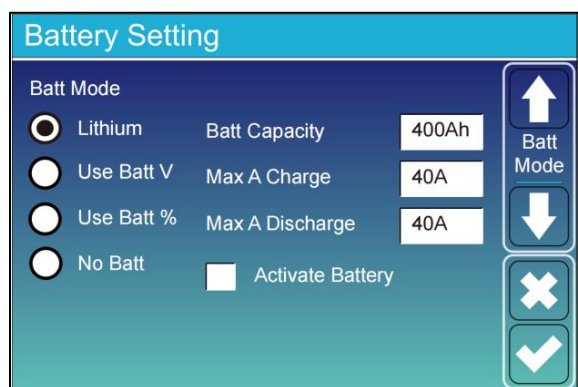


3. Inverter setting:

Main screen - System Setup - Battery Setting

Batt Mode - Lithium

Batt Set3 - Lithium Mode 00, Shut Down 10%, Low Batt 15%, Restart 20%.



Batt Capacity:

It tells Deye hybrid inverter to know your battery bank size.

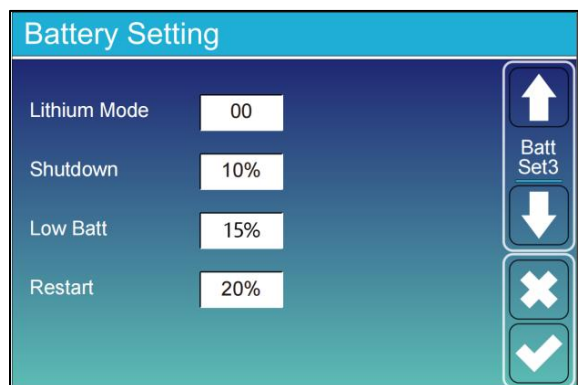
Max. A charge/discharge:

For Lithium, we recommend Ah battery size * 20% = Charge amps.

Ah battery size * 50% = Discharge amps.

Activate battery:

This feature will help recover a battery that is over discharged by slowly charging from the solar array or grid.



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 15%:

It indicates the inverter will alarm if the SOC below this value.

Restart 20%:

Battery voltage at 20% AC output will resume.