

Visit <https://www.dd5300-bms.com> and download UL PC SOFTWARE and the appropriate Firmware.



Each device or accessory of the DD5300 will have a specific Firmware that manages the logic and interconnection functions between Battery Modules and devices.

It is therefore important to understand the operational and interaction concepts of the DD5300 battery within a more complex system.

DD5300 MODULE



Firmware
20.XX

DD21001 HUB



Firmware
30.XX

HV BOX DD21002



Firmware
50.XX

WECO Software

WECO



LOW VOLTAGE

USER FREE ACCESS

OPERATOR ACCESS 

1010



HIGH VOLTAGE

USER FREE ACCESS

OPERATOR ACCESS



MODULE SETTING PROGRAM



WE-Hub



HUB SETTING PROGRAM



Status of Charge: ---%

Charging Time: ---
Discharging Time: ---
Standby Time: ---

Charge Energy: ---
Discharge Energy: ---
Energy Cycles: ---



Status: ---

Battery Voltage: ---
Current: ---
Cell Delta Voltage: ---

Inverter Protocol: ---
BMS Version: ---
Firmware Version: ---



Instant Power: ---kW

Modules Connected: ---
Modules Delta SOC: ---
Modules Delta Temp: ---

COM Port:
Connect:
Status: ---

Select the COM Port on the drop-down menu and click connect.

Search New Firmware

Load Firmware

WECO MONITOR UL V1.00 B15

Parallel Step Instructions Overview Parallel Overview Setting Upgrade





Status of Charge: 57.6%



Status: RUN



Instant Power: -1.0kW

Charging Time: 206h.41min
Discharging Time: 39h.47min
Standby Time: 10403h.51min

Charge Energy: 107.5kWh
Discharge Energy: 101.2kWh
Energy Cycles: 21

Battery Voltage: 49.27V
Current: -19.52A
Cell Delta Voltage: 0.021V

Inverter Protocol: CONEXTCAN
BMS Version: 0.02
Firmware Version: 20.12

Modules Connected: 02
Modules Delta SOC: 56.0%
Modules Delta Temp: 1.00°C

COM Port: COM3
Connect: Disconnect
Status: ●

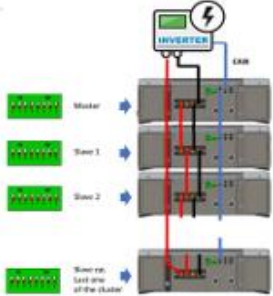
COM3: Connect Receive Count: 132 Send Count: 132 Err Count: 0 DataSaveFile: False 2023-03-06 09:10:57

WECO MONITOR UL V1.00 B15

Parallel Step Instructions Overview Parallel Overview Setting Upgrade

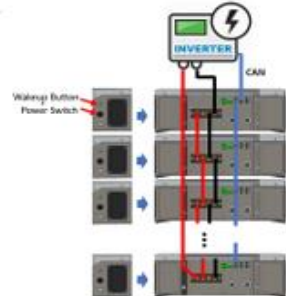
Step 1
Start composing the parallel cluster by setting the DIP switch as indicated setting the modules as shown below

Step 2
Connecting the modules in parallel and respect the polarity of +/- terminal, follow the parallel procedure



Step 3
Connect the RJ45 cables from RS485B to RS485A start from the master as shown below

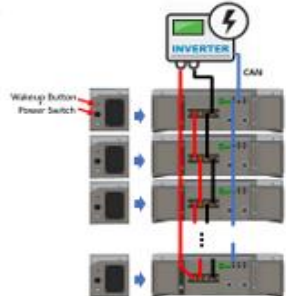
Step 4
Connect the power cable to the inverter and respect the polarity of +/- terminal of the inverter



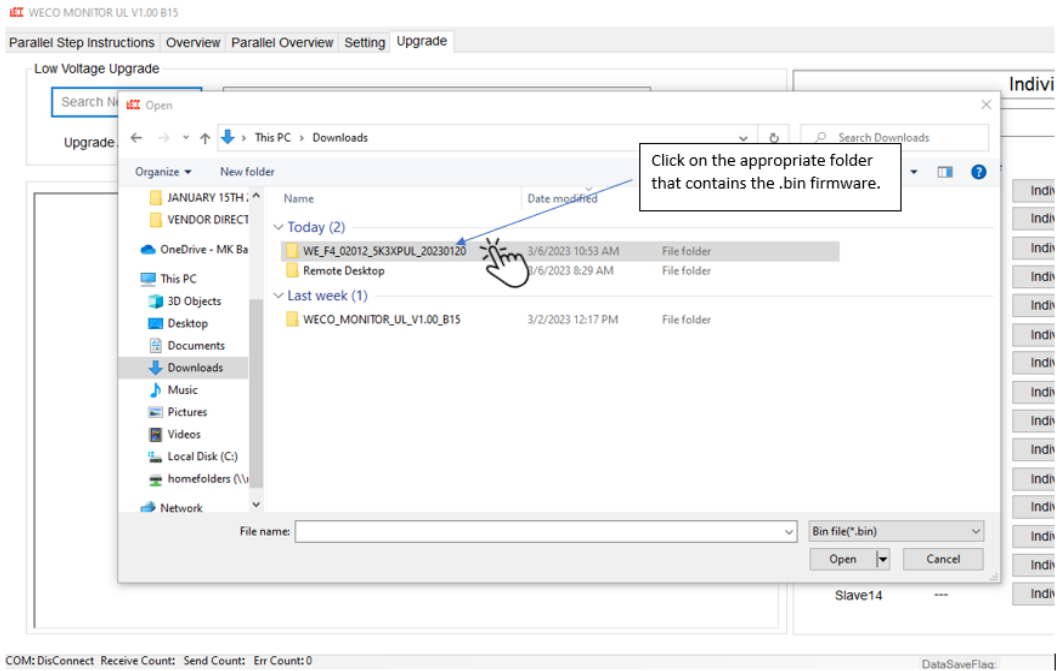
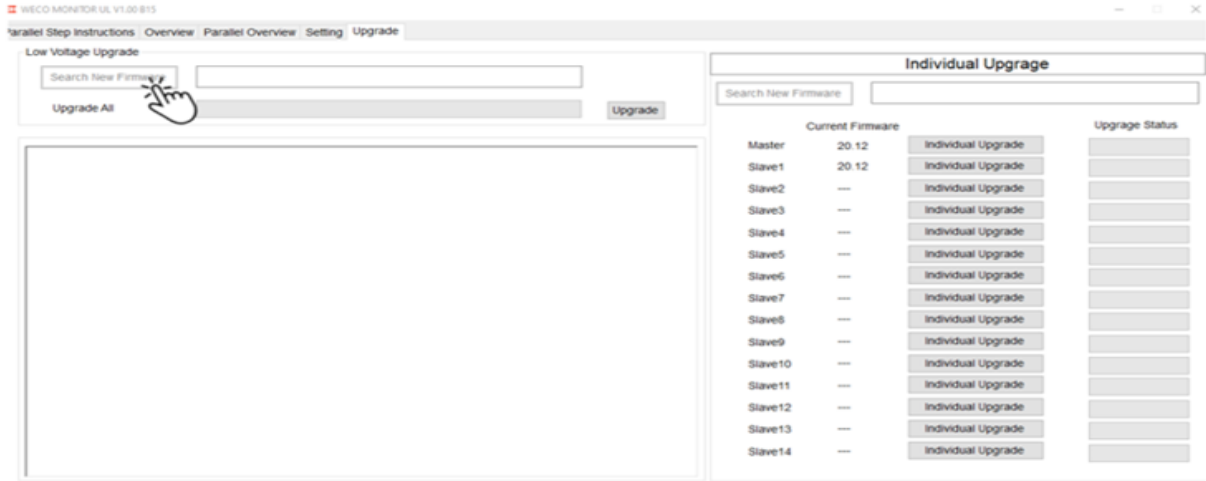
Step 5
Turn on each power switch from the master to the last slave battery

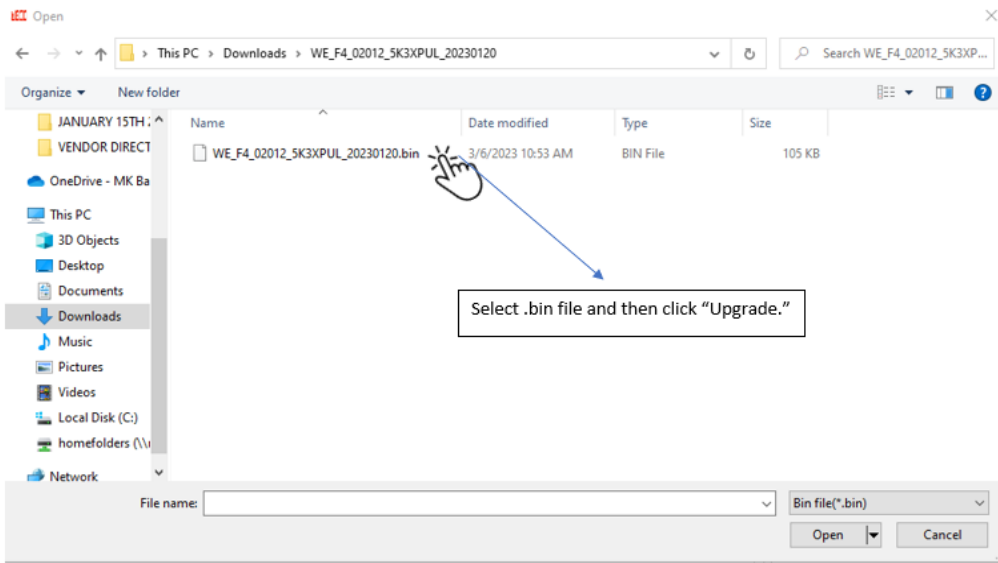
Step 6
Press the Wakeup button for 2 second of the master

The slaves will wake up one by one and will be set the address one by one automatically.
The led on the wake-up button will be light on.



COM:DisConnect Receive Count: Send Count: Err Count: 0 DataSaveFile: 2023-03-06 09:09:44





WECO MONITOR UL V1.00 815

Parallel Step Instructions Overview Parallel Overview Setting Upgrade

Low Voltage Upgrade

Search New Firmware C:\Users\...Downloads\WE_F4_02012_5K

Upgrade All Upgrade

2023.03.06 10:57:48: Sending 96 frame data
 2023.03.06 10:57:49: Sending 97 frame data
 2023.03.06 10:57:50: Sending 98 frame data
 2023.03.06 10:57:50: Sending 99 frame data
 2023.03.06 10:57:50: Sending 100 frame data
 2023.03.06 10:57:51: Sending 101 frame data
 2023.03.06 10:57:51: Sending 102 frame data
 2023.03.06 10:57:51: Sending 103 frame data
 2023.03.06 10:57:51: Sending 104 frame data
 2023.03.06 10:57:52: Sending 105 frame data
 2023.03.06 10:57:53: Upgrade file sending completed
 2023.03.06 10:57:53: In the 1 send command to start system upgrade
 2023.03.06 10:57:53: System upgrade command started successfully
 2023.03.06 10:58:03: Successful master upgrade
 2023.03.06 10:58:25: Successful Slave1 upgrade
 2023.03.06 10:58:39: Slave2 offline
 2023.03.06 10:58:54: Slave3 offline
 2023.03.06 10:59:08: Slave4 offline
 2023.03.06 10:59:23: Slave5 offline
 2023.03.06 10:59:37: Slave6 offline
 2023.03.06 10:59:51: Slave7 offline
 2023.03.06 11:00:06: Slave8 offline
 2023.03.06 11:00:20: Slave9 offline
 2023.03.06 11:00:35: Slave10 offline
 2023.03.06 11:00:49: Slave11 offline
 2023.03.06 11:01:05: Slave12 offline
 2023.03.06 11:01:19: Slave13 offline
 2023.03.06 11:01:34: Slave14 offline
 2023.03.06 11:01:50: In the 1 send app start command

Upgrade succeeded

Individual Upgrade

Search New Firmware

	Current Firmware		Upgrade Status
Master	20.12	Individual Upgrade	
Slave1	20.12	Individual Upgrade	
Slave2	---	Individual Upgrade	
Slave3	---	Individual Upgrade	
Slave4	---	Individual Upgrade	
Slave5	---	Individual Upgrade	
Slave6	---	Individual Upgrade	
Slave7	---	Individual Upgrade	
Slave8	---	Individual Upgrade	
Slave9	---	Individual Upgrade	
Slave10	---	Individual Upgrade	
Slave11	---	Individual Upgrade	

COM3: Connect Receive Count: 1346 Send Count: 1347 Err Count: 0

DataSaveFlag: True

2023-03-06 11:02:04

DO NOT EXIT THE SOFTWARE OR DISCONNECT RS232 UNTIL THE UPGRADE IS COMPLETE

Choose inverter protocol by selecting the settings tab.

Parallel Step Instructions Overview Parallel Overview Setting Upgrade

Setting

Inverter Protocol: CONEXTCAN Set

DO Setting

Signal Output 02

START/CLOSE

Connect when SOC%= 10%

STOPI/OPEN

Disconnect when SOC%= 25% Set

START SOC% must be lower than STOP SOC%
 Minimum SOC different from START and STOP must be 5%

Log for Setting

COM3: Connect Receive Count: 428 Send Count: 429 Err Count: 0

DataSaveFlag: False

2023-03-06 09:12:06

Inverter Protocol can be set in the settings tab shown.

Monitor modules by selecting the parallel overview tab.

The screenshot shows the 'Parallel Overview' tab in the WECC MONITOR UL V1.00 B15 software. The interface is divided into several sections:

- System Data:** System Power: -1.0kW, System SOC: 57.6%, Max Voltage: 3.094V, Min Voltage: 3.071V, Max Temp °C: 16°C, Min Temp °C: 15°C, Total Charge Energy: 161.8KWh, Total Discharge Energy: 9.1KWh, Modules Connected: 02, System Voltage: 49.4, System Charge Current Sent: 150.0A, System Discharge Current Sent: 20.0A.
- Master Module:** Voltage(V): 49.4, Current(A): -9.7, Max Cell(V): 3.094, Min Cell(V): 3.073, Charge Time: 206h.41min, Discharge Time: 39h.47min, Standby Time: 10403h.51mi, C_Mos: [Warning Icon], D_Mos: [Warning Icon]. Battery level: 29.8%.
- Slave1 Module:** Voltage(V): 49.3, Current(A): -10.1, Max Cell(V): 3.095, Min Cell(V): 3.071, Charge Time: 207h.57min, Discharge Time: 34h.18min, Standby Time: 10432h.56mi, C_Mos: [Warning Icon], D_Mos: [Warning Icon]. Battery level: 86.8%.
- Slave Modules 2-14:** All 13 slave modules (Slave2 through Slave14) are shown as 'OFFLINE'.

At the bottom of the window, the status bar shows: COM2: Connect, Receive Count:251, Send Count:251, Err Count:0, DataSaveFlag:False, and the date 2023-03-06 09:11:24.