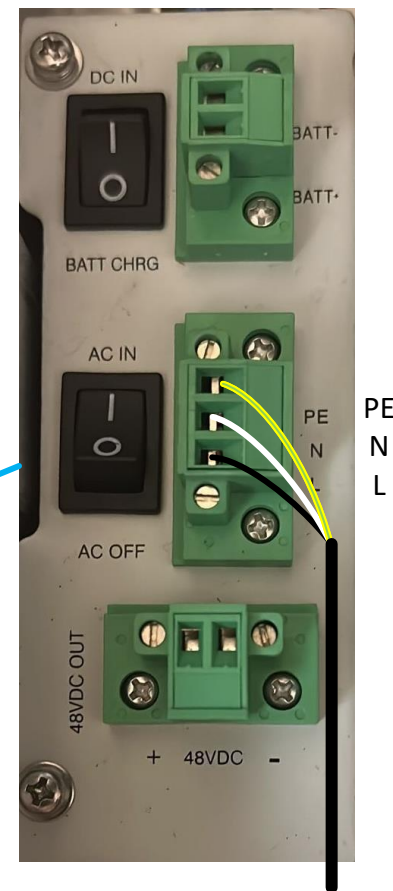


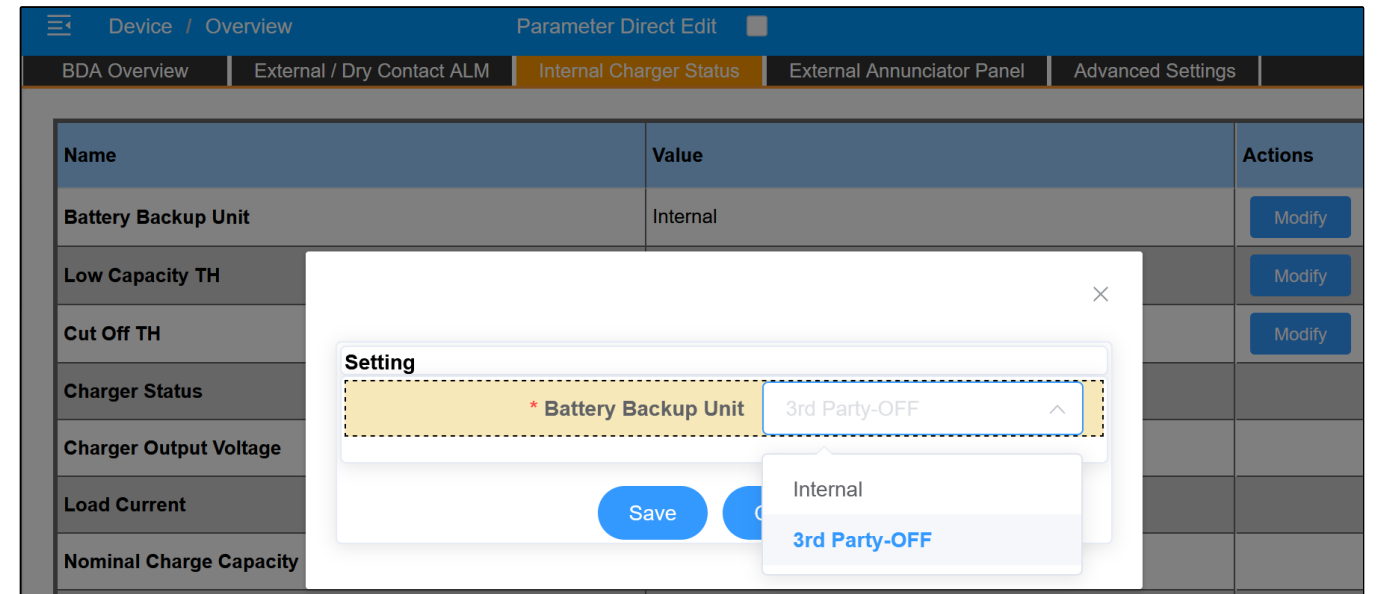
Comba BDA V3 Wiring Diagram

(AC ONLY)

Comba BDA V3

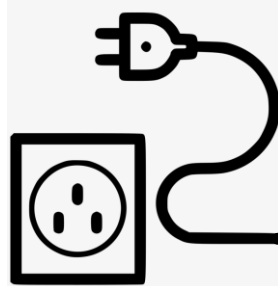


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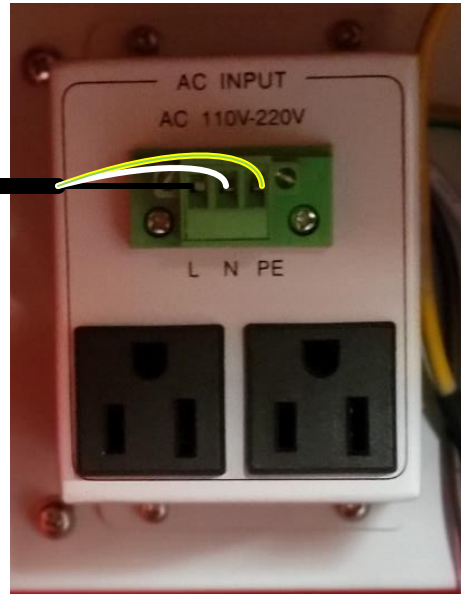
Please change under Device/Overview/Internal Charger Status the Battery Backup Unit settings to "3rd Party-OFF" when operating in AC mode only!

AC POWER

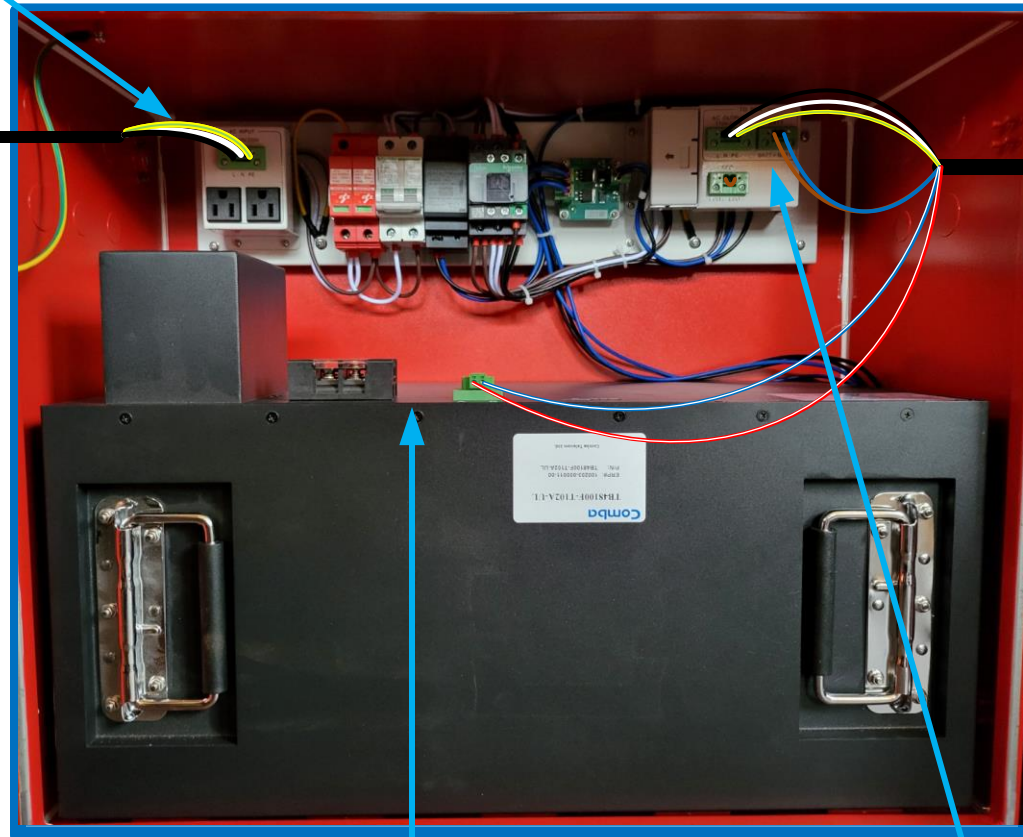


Comba BBU V3 to BDA V3 Wiring Diagram

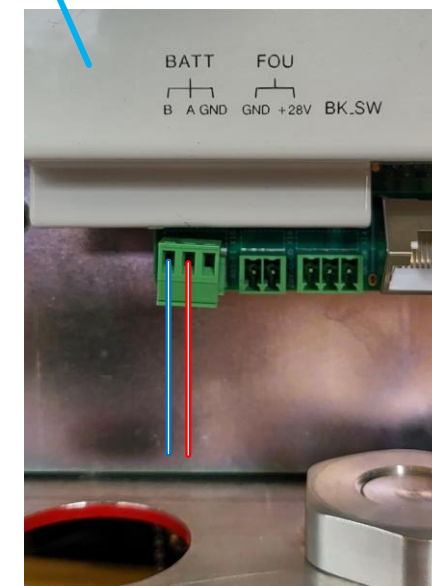
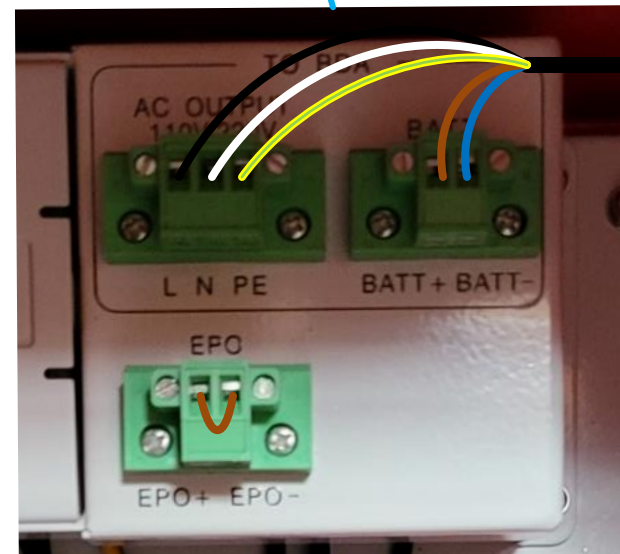
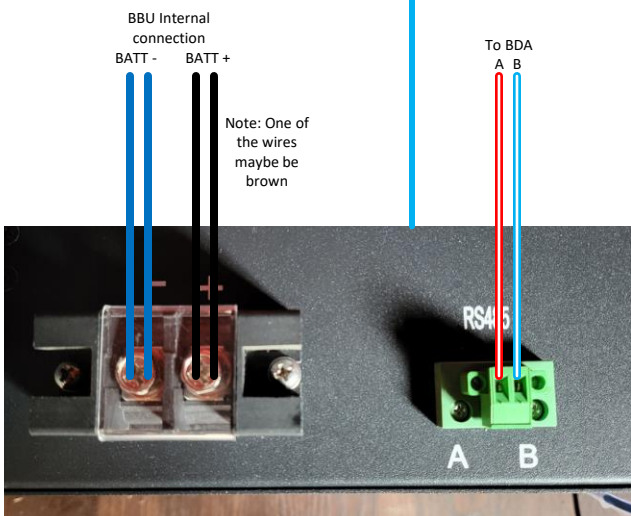
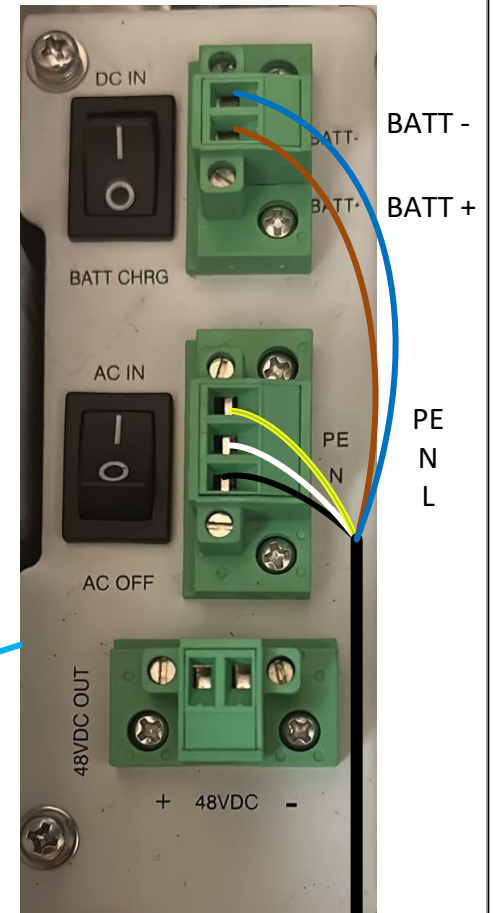
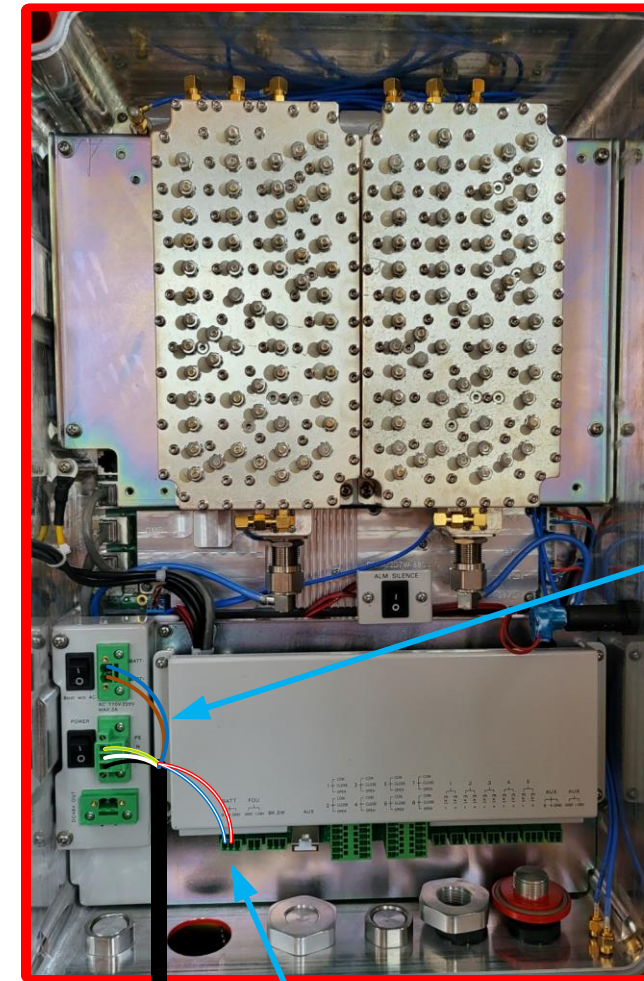
(BDA-BBU V3)



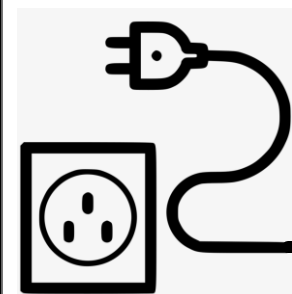
Comba BBU V3



Comba BDA V3



AC POWER

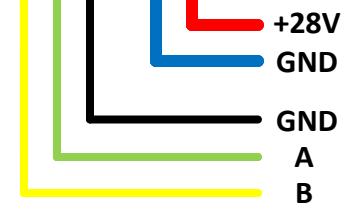
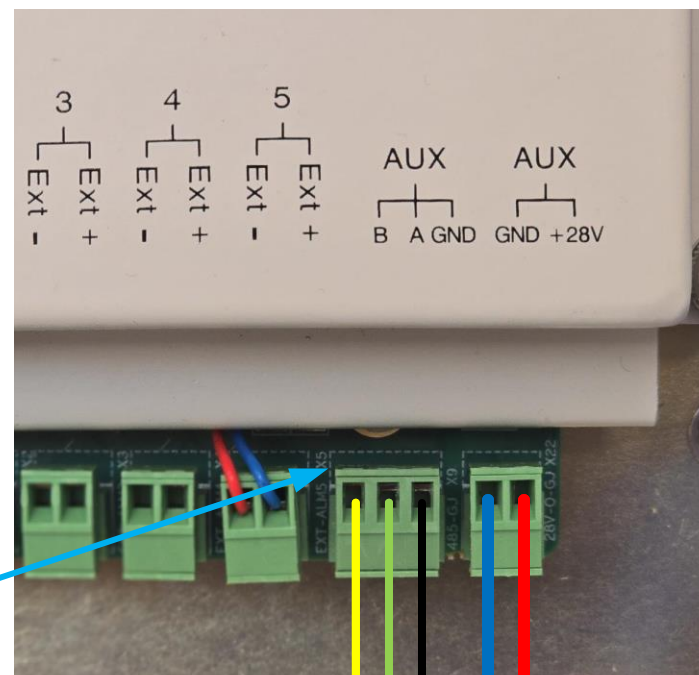


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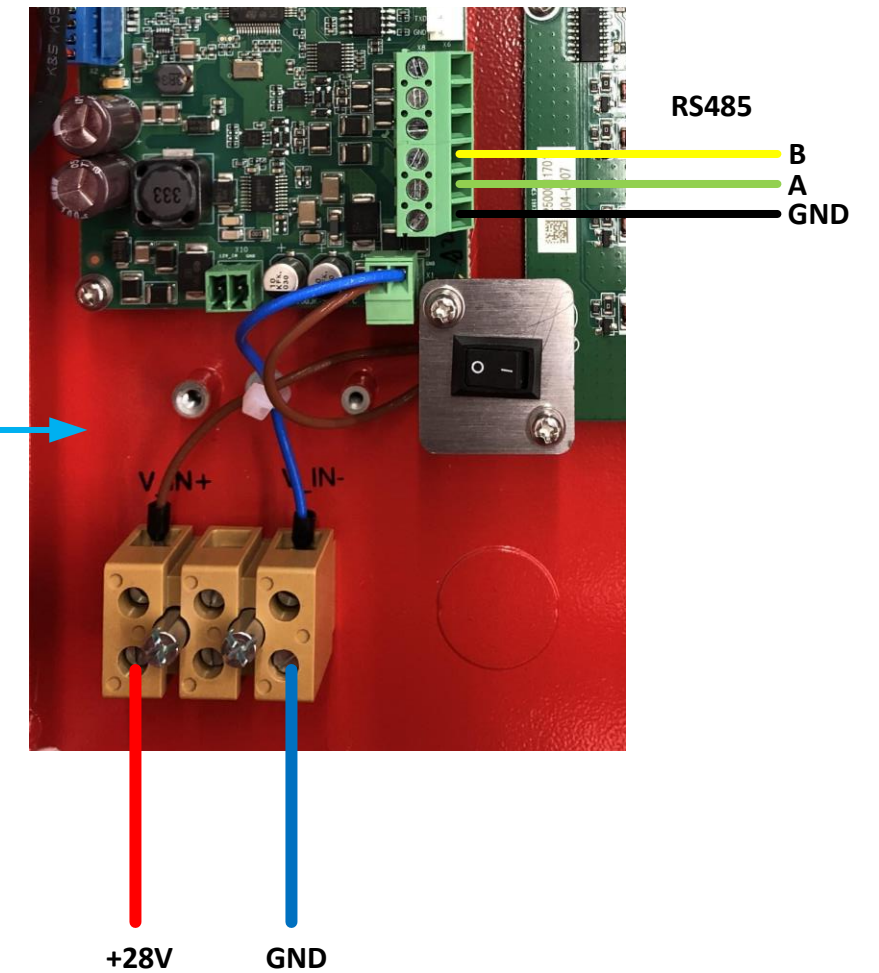
BDA V3 – Comba Annunciator V1 Wiring Diagram

Power OFF the V3 BDA and V1 Annunciator Panel before installation!

Comba BDA V3



AP V1



The V1 annunciator panel Alarm Definition and Display uses UL2524 and is non-configurable. For the best matching, select <UL2524 OCT 19 2018> in the V3 BDA/MU/RU software, and replace with the <UL2524> Alarm Plate on the V3 BDA/MU/RU front panel.

BDA V3 Alarm Wiring Diagram

(Normally Open Example)

Comba BDA V3



Dry alarm setting

* Alarm name: NORMAL AC POWER

Select all

<input checked="" type="checkbox"/> AC Normal	<input type="checkbox"/> AC Lost Alarm	<input type="checkbox"/> Charger Fault Alarm	<input type="checkbox"/> Charger Comm. Fault Alarm
<input type="checkbox"/> PA Alarm DL 700MHz	<input type="checkbox"/> LNA Alarm DL 700MHz	<input type="checkbox"/> PA Shutdown Alarm DL 700MHz	<input type="checkbox"/> Ext Alarm 1
<input type="checkbox"/> PA Alarm DL 800MHz	<input type="checkbox"/> LNA Alarm DL 800MHz	<input type="checkbox"/> PA Shutdown Alarm DL 800MHz	<input type="checkbox"/> Ext Alarm 2
<input type="checkbox"/> PA Alarm UL 700&800MHz	<input type="checkbox"/> LNA Alarm UL 700&800MHz	<input type="checkbox"/> PA Shutdown Alarm UL 700&800MHz	<input type="checkbox"/> Ext Alarm 3
<input type="checkbox"/> DL_P_in Over Alarm 700MHz	<input type="checkbox"/> DL_P_in Low Alarm 700MHz	<input type="checkbox"/> Oscillation Shutdown Alarm	<input type="checkbox"/> Ext Alarm 4
<input type="checkbox"/> DL_P_out Over Alarm 700MHz	<input type="checkbox"/> DL_P_out Low Alarm 700MHz	<input type="checkbox"/> Oscillation Gain Reduction Alarm	<input type="checkbox"/> Ext Alarm 5
<input type="checkbox"/> DL_P_in Over Alarm 800MHz	<input type="checkbox"/> DL_P_in Low Alarm 800MHz	<input type="checkbox"/> PLL Alarm	<input type="checkbox"/> Over Temperature Alarm
<input type="checkbox"/> DL_P_out Over Alarm 800MHz	<input type="checkbox"/> DL_P_out Low Alarm 800MHz	<input type="checkbox"/> Digital Clock Alarm	<input type="checkbox"/> DT ANT Disconnection Alarm
<input type="checkbox"/> VSWR Alarm DL 700MHz	<input type="checkbox"/> VSWR Alarm DL 800MHz	<input type="checkbox"/> Battery Low Alarm	<input type="checkbox"/> Battery Connection Fail Alarm
<input type="checkbox"/> Battery Over Temperature Alarm	<input type="checkbox"/> Battery Comm. Fault Alarm	<input type="checkbox"/> Battery Over-Discharge Alarm	

Save Cancel

Setting 1

* Dry Contact Alarm Preset: NFPA 1221 2019

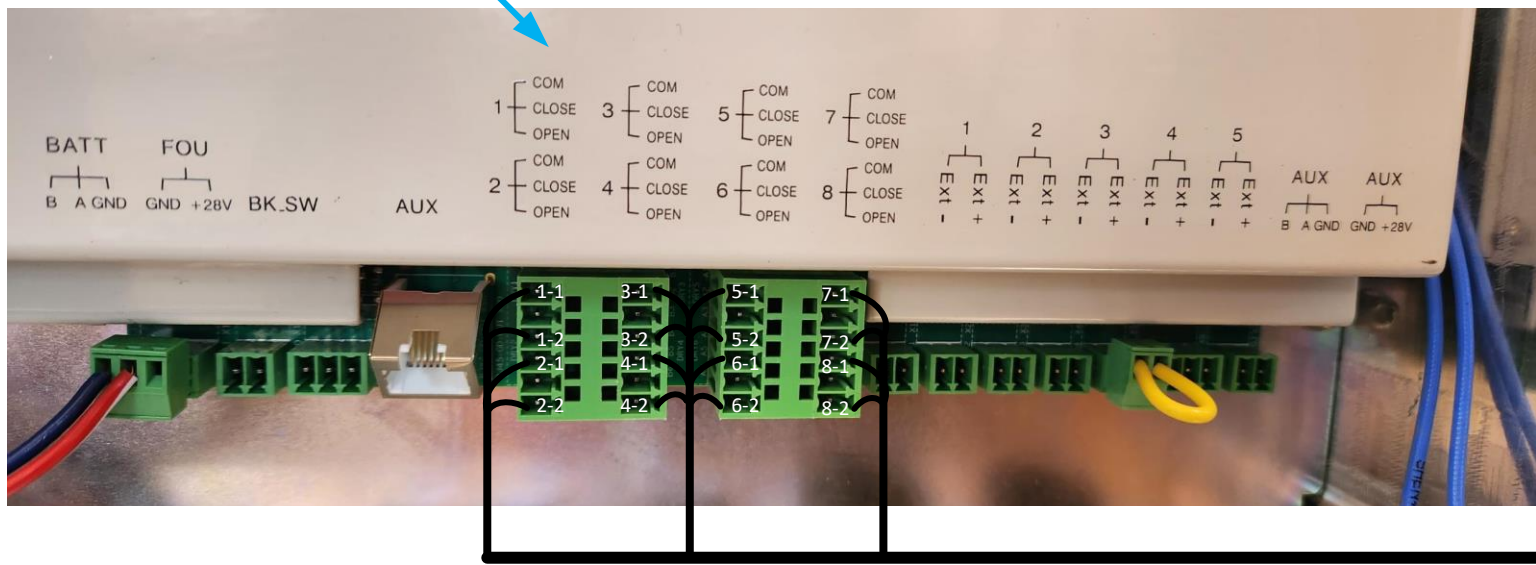
Save Cancel

Name	Value	Actions
Dry Contact Alarm Preset	NFPA 1221 2019	Modify Test

Dry Contact Alarm Name	Alarm Status	Actions
NORMAL AC POWER	●	Modify Test
LOSS OF NORMAL AC POWER	●	Modify Test
BATTERY CHARGER FAILURE	●	Modify Test
LOW-BATTERY CAPACITY	●	Modify Test
DONOR ANTENNA MALFUNCTION	●	Modify Test
ACTIVE RF-EMITTING DEVICE MALFUNCTION	●	Modify Test
ACTIVE SYSTEM COMPONENT MALFUNCTION	●	Modify Test

FACP

- 1-1 NO (Alarm 1 / eg. NORMAL AC POWER)
- 1-2 COM
- 2-1 NO (Alarm 2 / eg. LOSS OF NORMAL AC POWER)
- 2-2 COM
- 3-1 NO (Alarm 3 / eg. BATTERY CHARGER FAILURE)
- 3-2 COM
- 4-1 NO (Alarm 4 / eg. LOW-BATTERY CAPACITY)
- 4-2 COM
- 5-1 NO (Alarm 5 / eg. DONOR ANTENNA MALFUNCTION)
- 5-2 COM
- 6-1 NO (Alarm 6 / eg. ACTIVE RF-EMITTING DEVICE MALFUNCTION)
- 6-2 COM
- 7-1 NO (Alarm 7 / eg. ACTIVE SYSTEM COMPONENT MALFUNCTION)
- 7-2 COM
- 8-1 NO (Alarm 8)
- 8-2 COM

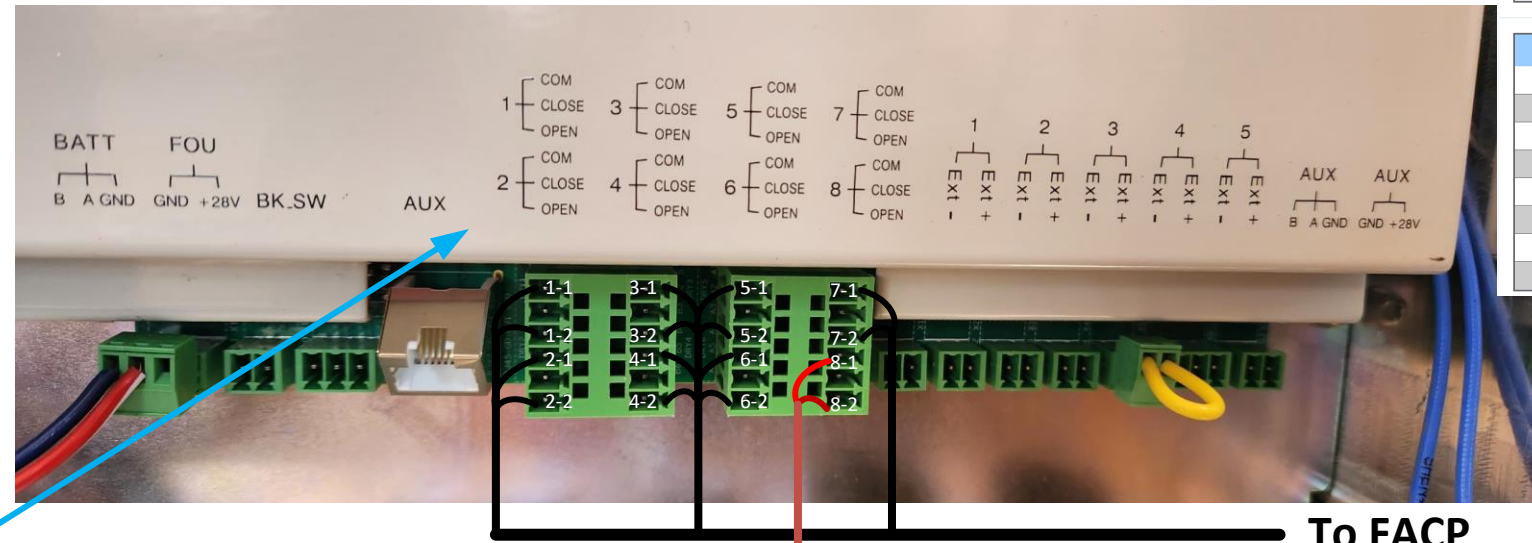


Alarm Cable not provided by Comba!

BDA V3 - 3rd Party Auto Dialer Wiring Diagram

(Normally Open Example)

Comba BDA V3



Dry Contact Alarms

Name	Value	Actions
Dry Contact Alarm Preset	NFFA 1221 2019	Modify Test

Dry Contact Alarm Name	Alarm Status	Actions
NORMAL AC POWER	●	Modify Test
LOSS OF NORMAL AC POWER	●	Modify Test
BATTERY CHARGER FAILURE	●	Modify Test
LOW-BATTERY CAPACITY	●	Modify Test
DONOR ANTENNA MALFUNCTION	●	Modify Test
ACTIVE RF-EMITTING DEVICE MALFUNCTION	●	Modify Test
ACTIVE SYSTEM COMPONENT MALFUNCTION	●	Modify Test

Create summary alarm on free or unused Dry Contact relay (eg. DC 8)

Dry alarm setting

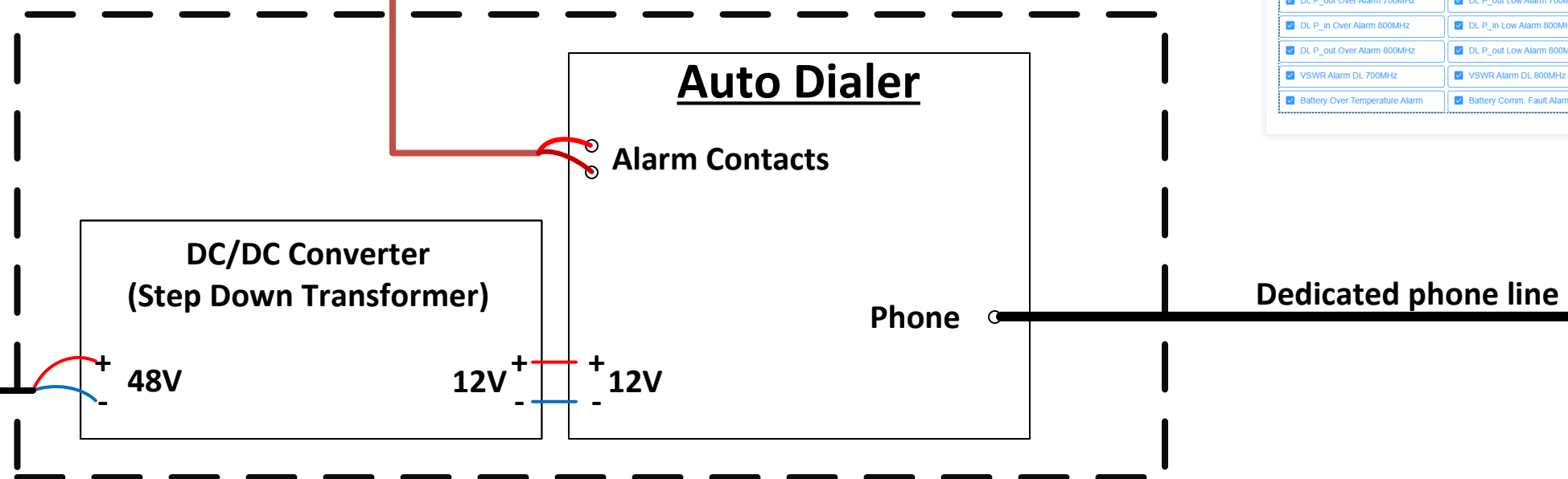
* Alarm name Summary Alarm

Select all

<input type="checkbox"/> AC Normal	<input checked="" type="checkbox"/> AC Lost Alarm	<input checked="" type="checkbox"/> Charger Fault Alarm	<input checked="" type="checkbox"/> Charger Comm. Fault Alarm
<input checked="" type="checkbox"/> PA Alarm DL 700MHz	<input checked="" type="checkbox"/> LNA Alarm DL 700MHz	<input checked="" type="checkbox"/> PA Shutdown Alarm DL 700MHz	<input type="checkbox"/> Ext Alarm 1
<input checked="" type="checkbox"/> PA Alarm DL 800MHz	<input checked="" type="checkbox"/> LNA Alarm DL 800MHz	<input checked="" type="checkbox"/> PA Shutdown Alarm DL 800MHz	<input type="checkbox"/> Ext Alarm 2
<input checked="" type="checkbox"/> PA Alarm UL 700&800MHz	<input checked="" type="checkbox"/> LNA Alarm UL 700&800MHz	<input checked="" type="checkbox"/> PA Shutdown Alarm UL 700&800MHz	<input type="checkbox"/> Ext Alarm 3
<input checked="" type="checkbox"/> DL_P_in Over Alarm 700MHz	<input checked="" type="checkbox"/> DL_P_in Low Alarm 700MHz	<input checked="" type="checkbox"/> Oscillation Shutdown Alarm	<input type="checkbox"/> Ext Alarm 4
<input checked="" type="checkbox"/> DL_P_out Over Alarm 700MHz	<input checked="" type="checkbox"/> DL_P_out Low Alarm 700MHz	<input checked="" type="checkbox"/> Oscillation Gain Reduction Alarm	<input type="checkbox"/> Ext Alarm 5
<input checked="" type="checkbox"/> DL_P_in Over Alarm 800MHz	<input checked="" type="checkbox"/> DL_P_in Low Alarm 800MHz	<input checked="" type="checkbox"/> PLL Alarm	<input checked="" type="checkbox"/> Over Temperature Alarm
<input checked="" type="checkbox"/> DL_P_out Over Alarm 800MHz	<input checked="" type="checkbox"/> DL_P_out Low Alarm 800MHz	<input checked="" type="checkbox"/> Digital Clock Alarm	<input checked="" type="checkbox"/> DT ANT Disconnection Alarm
<input checked="" type="checkbox"/> VSWR Alarm DL 700MHz	<input checked="" type="checkbox"/> VSWR Alarm DL 800MHz	<input checked="" type="checkbox"/> Battery Low Alarm	<input checked="" type="checkbox"/> Battery Connection Fail Alarm
<input checked="" type="checkbox"/> Battery Over Temperature Alarm	<input checked="" type="checkbox"/> Battery Comm. Fault Alarm	<input checked="" type="checkbox"/> Battery Over-Discharge Alarm	

Save Cancel

48VDC Power backed up by BBU

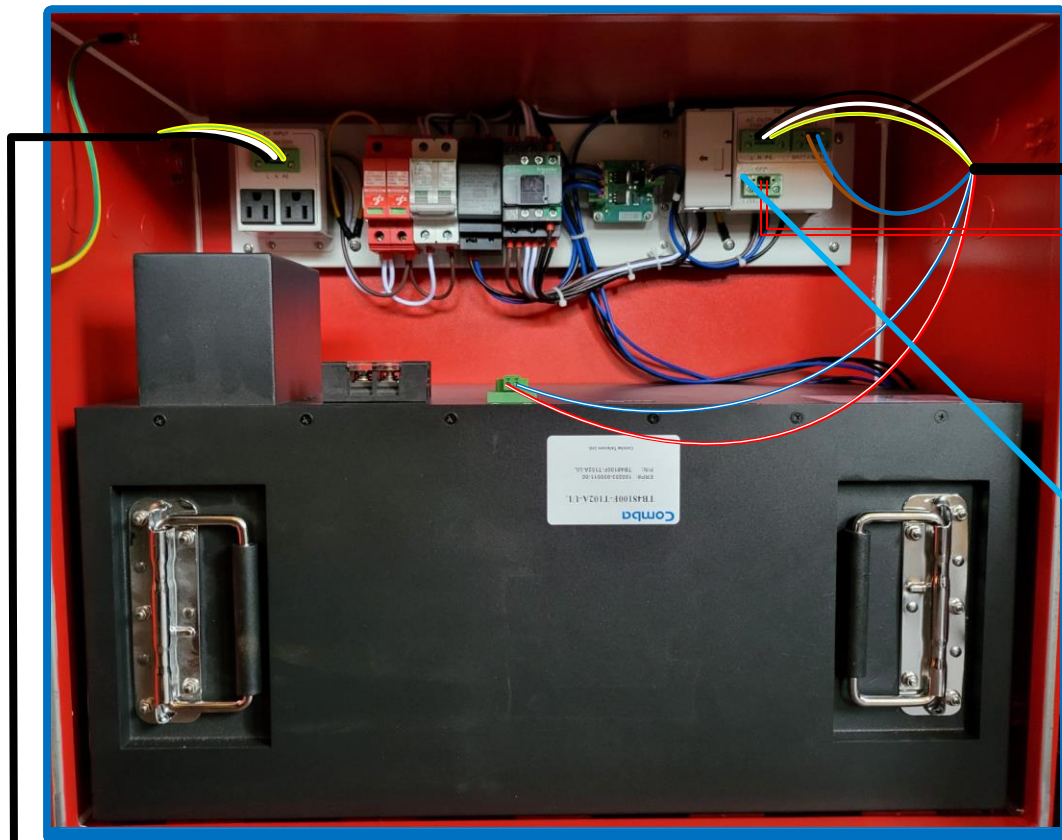


3rd Party DC/DC Converter and Auto Dialer could be placed in BBU V3!

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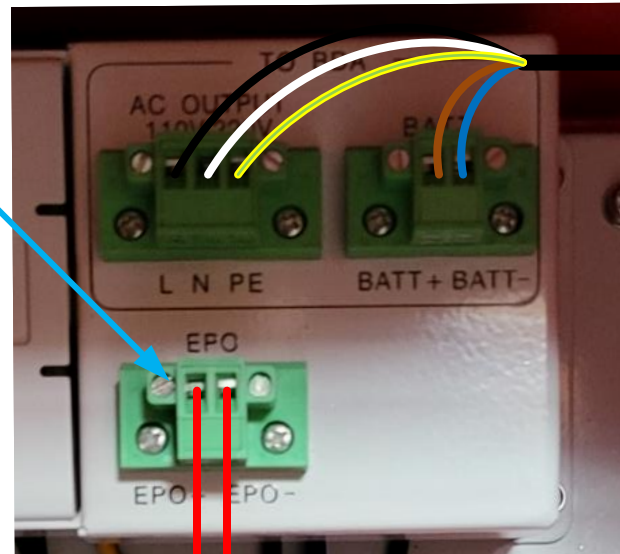
Comba BBU V3 EPO Wiring Diagram

Comba BBU V3



To BDA V3

To EPO Switch

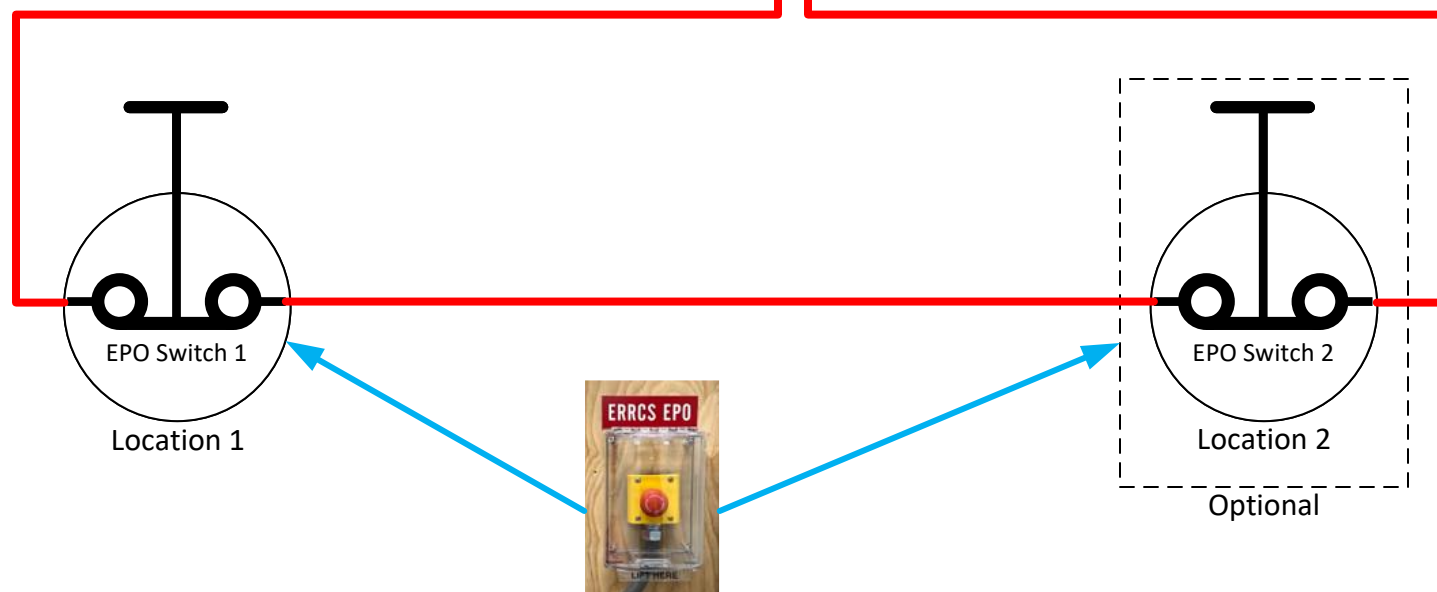
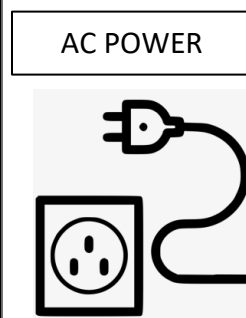


Install EPO switch

- If you wish to install an EPO switch: Note that the EPO connections have a preinstalled wire that shorts the EPO+ and EPO-. Remove the preinstalled wire and connect the EPO switch; then turn the EPO switch to its "Closed" position (Normal Status)
- DO NOT Set the EPO switch to "Open" (Cut Off Status)
- The EPO switch can be installed at a remote location; note that the voltage-drop should be considered!
- The EPO function is triggered from a relay and this relay is energized by the battery or the charger; if the battery is over-discharged, then the EPO function may not work properly.
- If you do not wish to use an EPO switch, do not remove the preinstalled shorting wire!

BBU & BBU EPO Relay Information:

EPO Relay control circuit voltage: 24-60V DC
 EPO Relay current: <100mAmps
 BBU Battery Nominal voltage: 51.2V
 BBU Cut Off TH: 46V

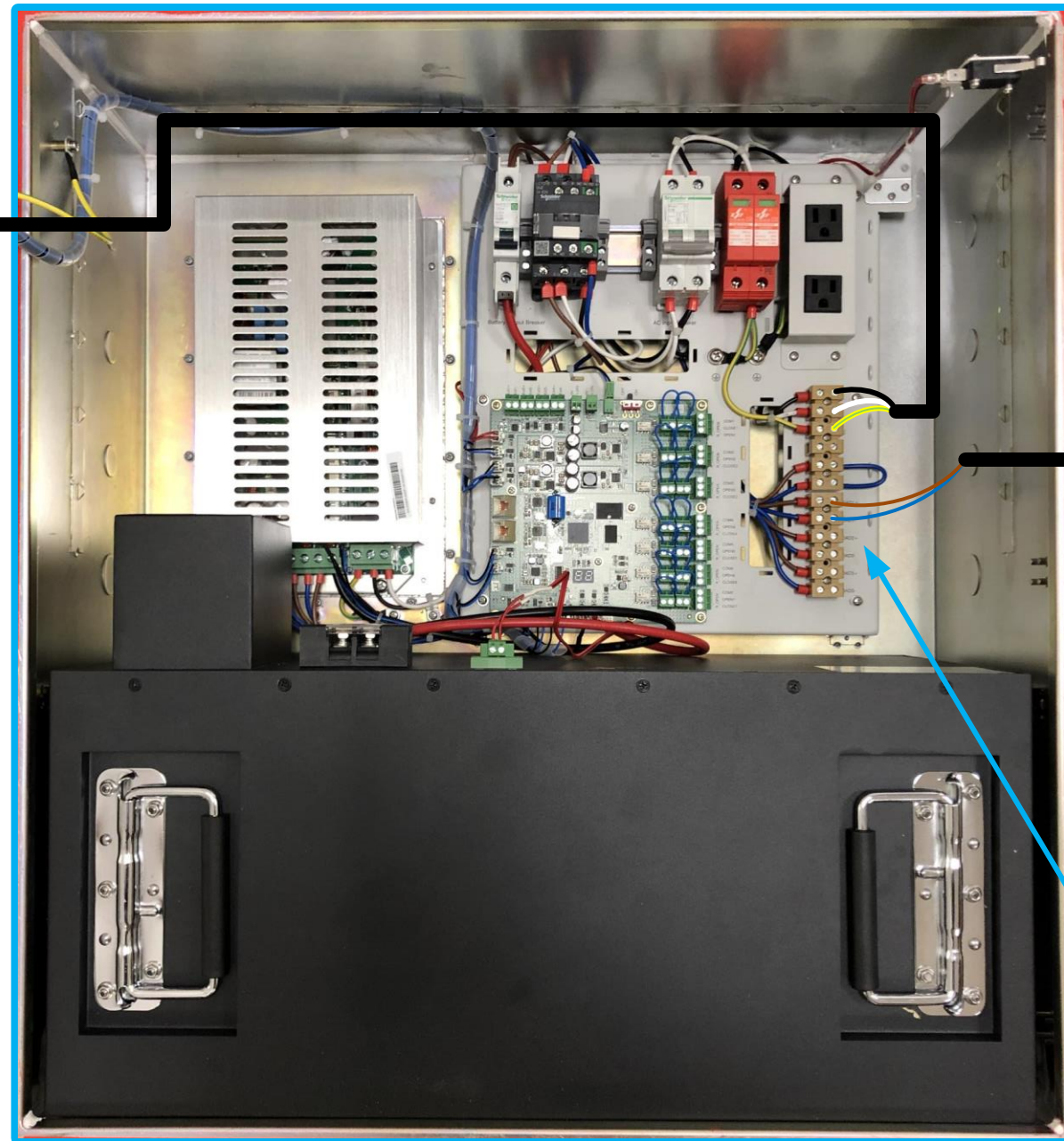


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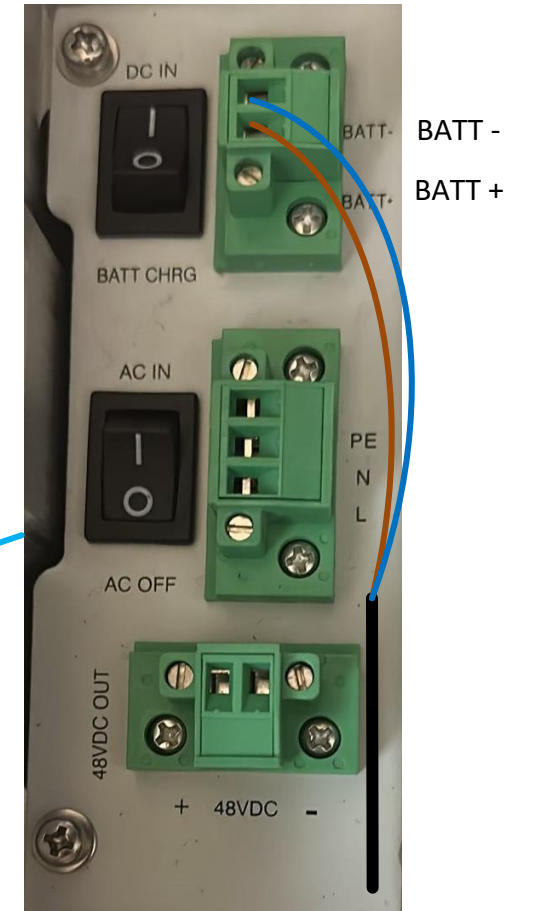
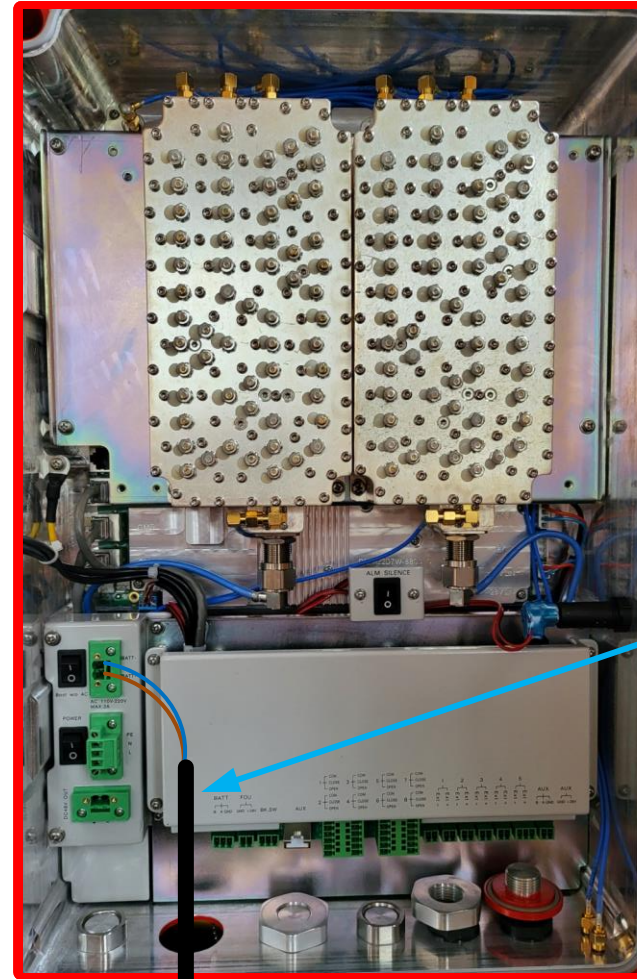
Comba BBU V2 to BDA V3 Wiring Diagram

(BDA-BBU V2)

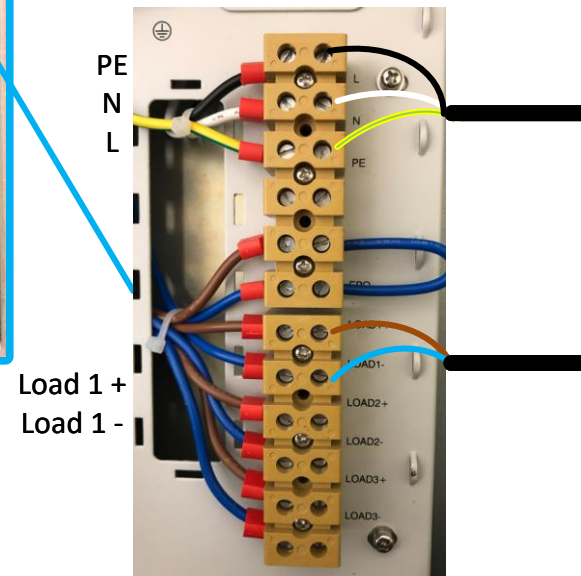
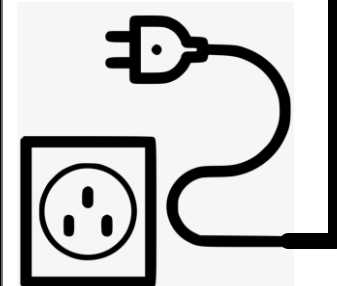
Comba BBU V2



Comba BDA V3



AC POWER



**Please change under Device/Overview/
Internal Charger Status the Battery Backup
Unit settings to "3rd Party-OFF" when
operating with V2 BBU!**

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