

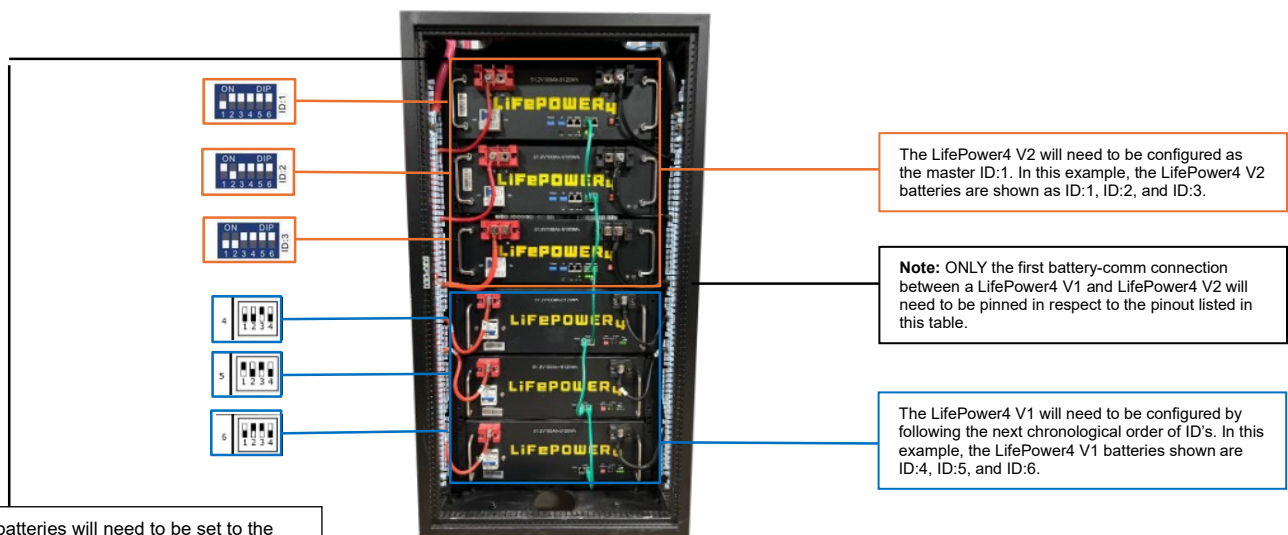
48V 100Ah EG4 Lifepower4 V2 Communications with 48V 100Ah EG4 Lifepower4 V1

Issue:

- When communicating an EG4 Lifepower4 V2 with a EG4 Lifepower4 V1, a Rapid Shutdown Protection will occur when using the 1-foot CAT5 (T-568B) that is currently provided due to the EG4 Lifepower4 V2 utilizing the Battery-Com RJ45 Pins (3, 6) as its normally open circuit for the rapid shutdown.

Resolution:

- To resolve this issue, the 1-foot patch cable will need to be re-pinned on only one side of the RJ45 as Pins (7,8). This will then bypass the EG4 Lifepower4 V2 rapid shutdown circuit and only allow the EG4 Lifepower4 V2 and EG4 Lifepower4 V1 to communicate correctly.
- This will ONLY have to be done x1 time between the first connection of the EG4 Lifepower4 V2 and the EG4 Lifepower4 V1. (Examples provided below)
- If needing a cable provided, please reach out to support@eg4electronics.com to have one shipped.



Only the LifePower4 V2 batteries will need to be set to the Simplified Link Protocol

Note: Protocol DIP switch 6 will be used to allow battery communication to the other batteries depending on which battery version you have.

| Protocol | DIP Switch | Description | Notes |
|--------------------------|------------|--------------------------|---|
| Complete LINK protocol | | Complete LINK protocol | In the "ON" position, this allows the battery to communicate with the Indoor and Outdoor WallMount and version 2 LL's and original batteries with the Multipack firmware. |
| Simplified LINK protocol | | Simplified LINK protocol | In the "OFF" position, this allows the battery to communicate with version 1 LL's and original LifePower4 with the Multipack firmware. |

BATTERY-TO-BATTERY CABLE PINOUT
The pins utilized for battery-to-battery communication are as follows:

| LL-V1/LifePower4 | | LL-S/LL-V2 (486 DIP) | |
|------------------|-------------|----------------------|-------------|
| Pin | Description | Pin | Description |
| 7 | RS485-B | 7 | RS485-B |
| 8 | RS485-A | 8 | RS485-A |

The battery will only send a transmit/receive signal over these two pins. Ensure the battery-to-battery communication cable is only utilizing pins 7 & 8.

NOTE: When using LL-V1 and LifePower4 batteries in communications with the LL-S/LL-V2 multi-pack firmware, ensure the communications cable between the LL-V2 and all other model batteries down are pinned to this standard. If there are extra pins populated, the LL-S will trip its breaker if it receives a signal from pins 3 or 6 along with all other batteries in this parallel configuration.

- Provided below is the standard RJ45 Pinout T-568B.
- ONLY pins RJ45 (7,8) will need to be used between the battery-com on the EG4 Lifepower4 V2 and the EG4 Lifepower4 V1.

