



EI Residential Solar Solution (EU)

BMS/EI Battery Quick Start Guide (QSG)

Use this QSG with the Tigo EI Inverter and EI Link QSGs.
Detailed installation manuals for all Tigo products are available on the [tigoenergy.com Downloads](https://tigoenergy.com/Downloads) page.



- Qualified personnel must install all components according to applicable electrical codes.
- Improper installation will cause damage not covered by the warranty.

BMS/EI Battery boxes include:

- BMS-inverter 2 m charging cables (2)
- BMS-inverter 2.2 m COM cable
- BMS-battery 0.15 m earthing wire
- BMS-battery 0.12 m power cable
- BMS-battery 690 mm power cable
- BMS-battery 0.2 m COM cable
- Battery-battery 0.6 m COM cable
- Battery-battery 0.45 m earthing wire
- Base/cover/mounting hardware

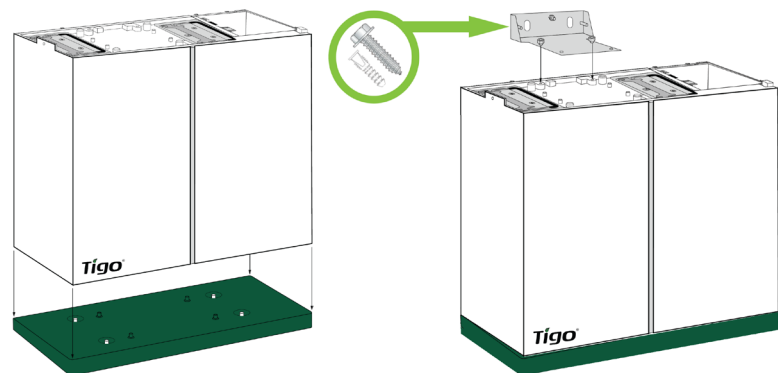
Locate the battery:

- On a level, flat surface against a solid, plumb wall.
- At least 300 mm from another battery or system enclosure.

Connect power cables precisely as instructed on the back page. Making connections out-of-order will damage the battery and void the warranty.

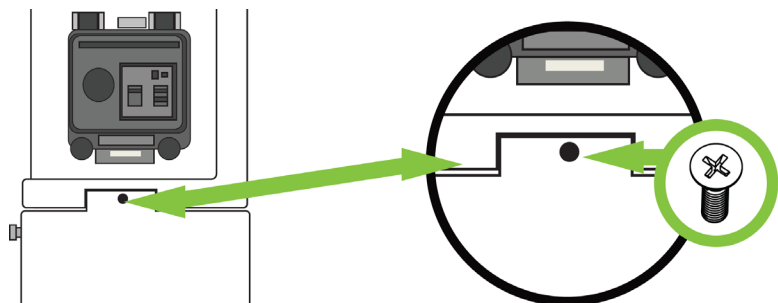
Place the Battery

1. Place the base 20 mm from the wall and adjust levelers.
2. If single battery: attach the battery bracket to the top of the battery and the wall.
3. If second battery: attach to first battery and attach bracket.
4. If separate stack of batteries: Attach two cover brackets on the top-most battery and place top cover.



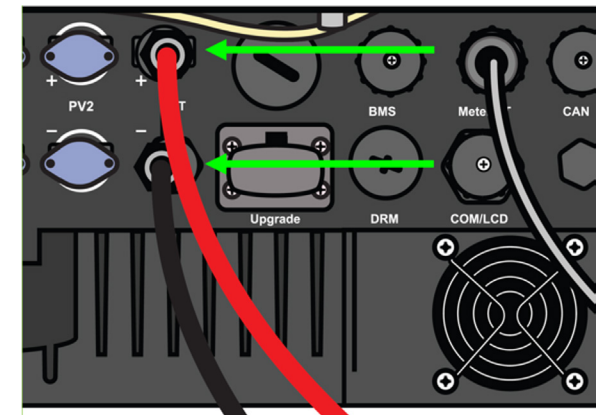
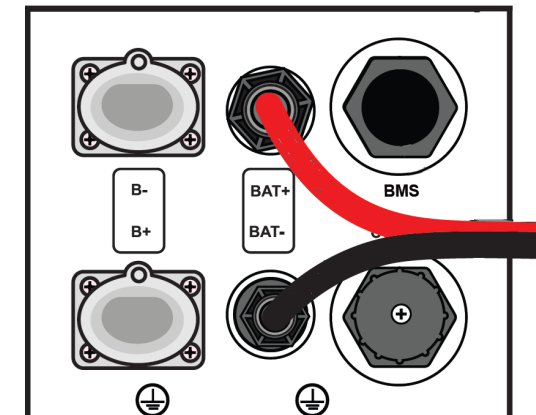
Place the BMS

Attach the BMS to the top-most battery with screws on each side.

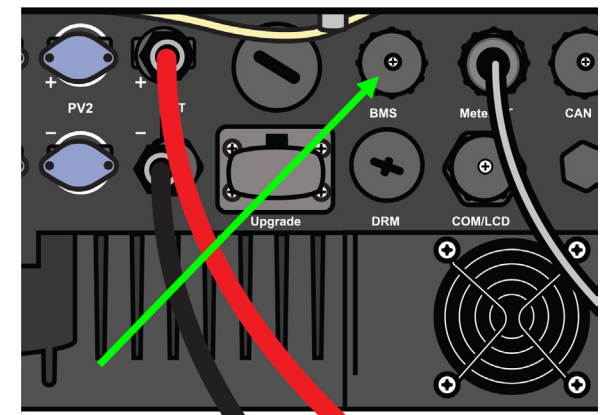
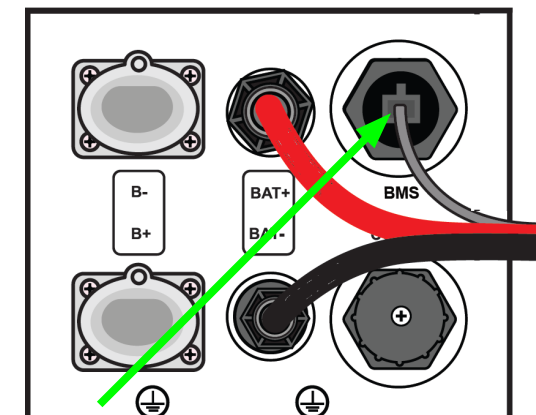


Connect the BMS to the EI Inverter

1. Crimp provided MC4 connectors to the battery charging cables found in the BMS box.
2. Connect the BMS and inverter *BAT+* and *BAT-* ports with the battery charging cables.

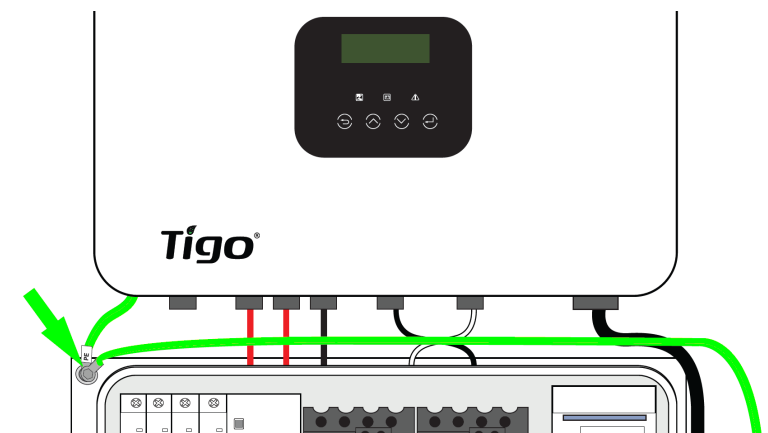
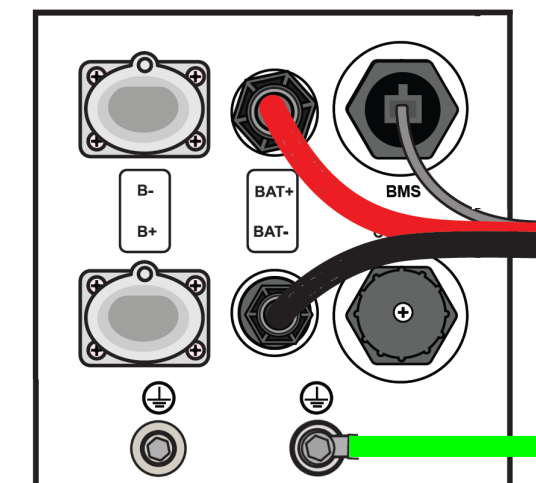


3. Connect the BMS and inverter *BMS* RJ-45 ports with the BMS COM cable.



Connect the BMS to the EI Link

Three-phase systems only: connect an earthing wire to the link.

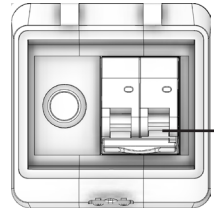




- Qualified personnel must install all components according to applicable electrical codes.
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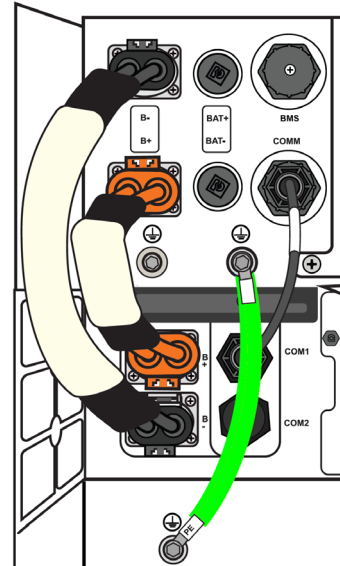
Connect the BMS to the Battery

1. Ensure the BMS switch is OFF.



BMS switch OFF

2. Connect an earthing cable from the BMS to the battery.
3. Connect a battery module power cable from the BMS *B+* port to the battery *B+* port.
4. Connect a battery module power cable from the BMS *B-* port to the battery *B-* port.
5. Connect the BMS *COMM* port and the battery *COM1* port with a COM cable.



Connect Two or More Batteries in Series

Connect power cables precisely as instructed below. Making connections out-of-order will damage the battery and void the warranty.

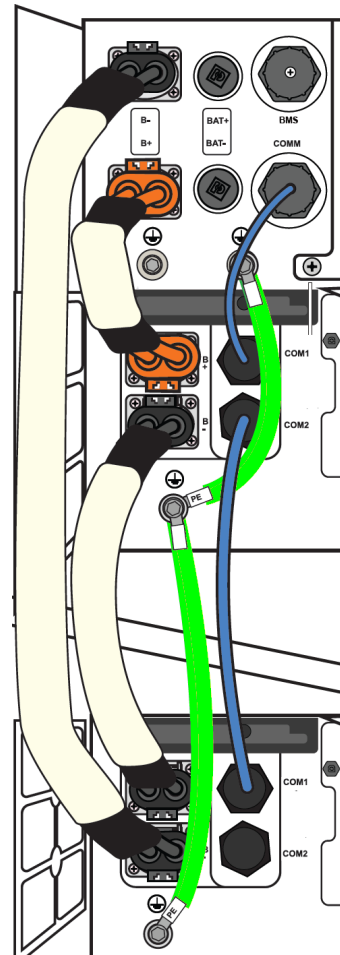
Connect earthing cables between all enclosures and ensure the BMS switch is OFF.

Connect power cables:

1. Connect the shortest power cable between the BMS *B+* port and the first battery *B+* port.
2. Connect a power cable between the first battery *B-* and the next battery *B+* port.
3. Repeat for each subsequent battery.
4. Connect the longest power cable between the BMS *B-* port and the last battery *B-* port.

Connect COM cables:

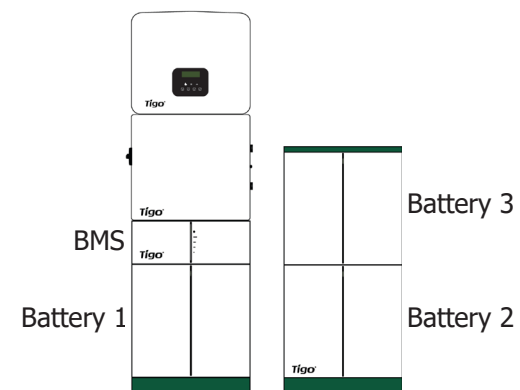
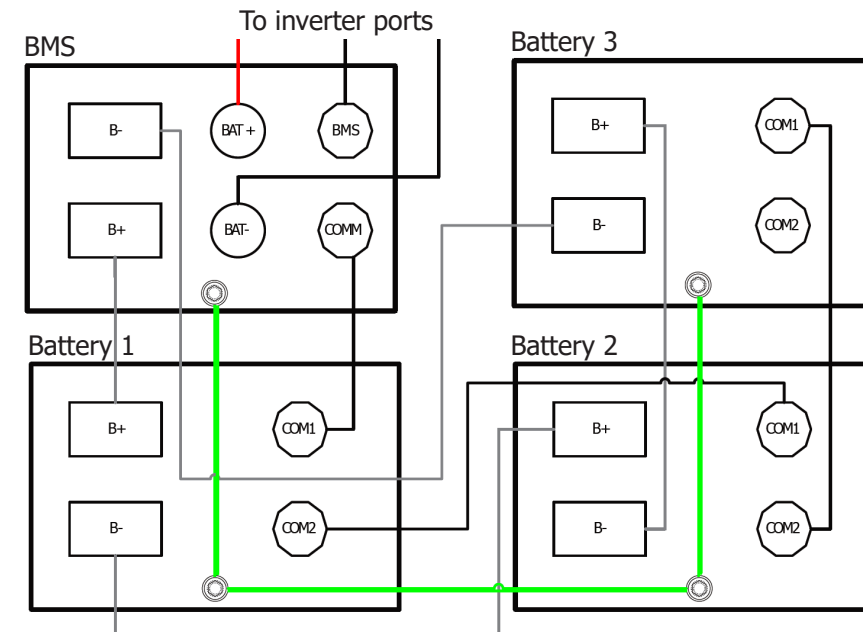
1. Connect a COM cable between the BMS *COMM* port and the first battery *COM1* port.
2. Connect a COM cable between the first battery *COM2* port and the next battery *COM1* port



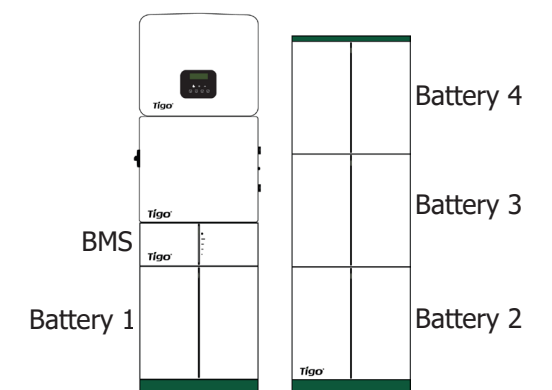
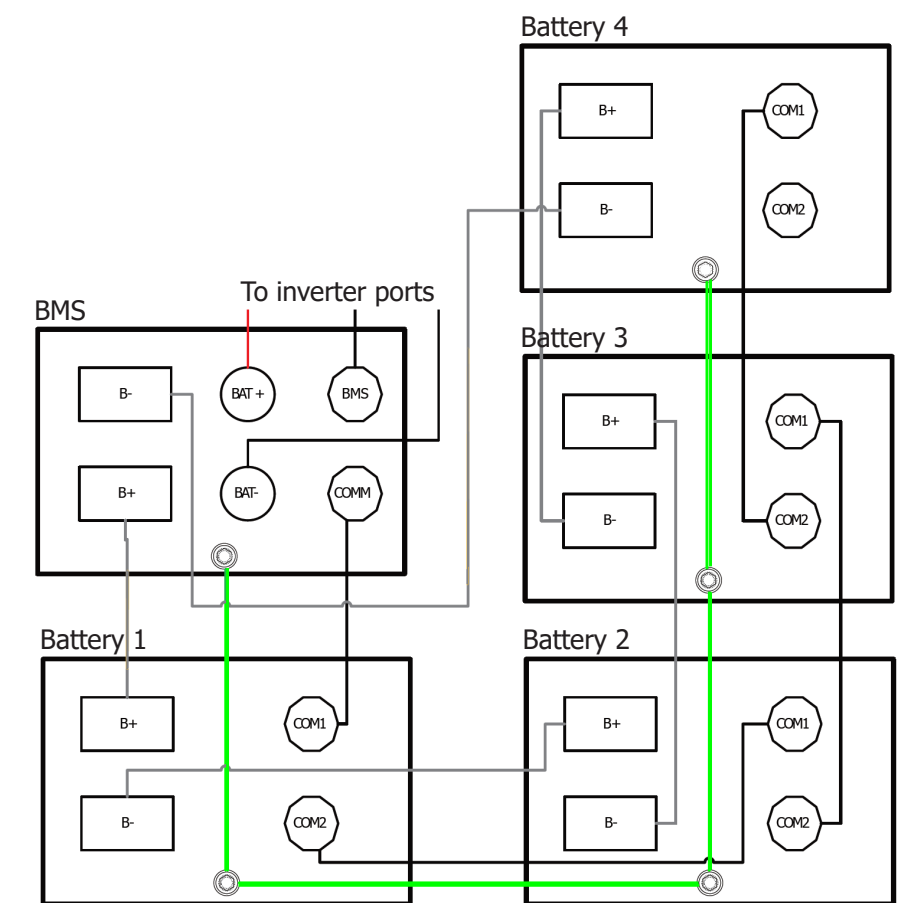
Three-Battery Wiring

If connecting to three or four batteries in a separate stack, order the accessory kit (Tigo p/n 707-100000-0001) that has an additional base, wall bracket, cover, and longer cables.

Place a separate stack ≥ 300 mm from the main system.



Four-Battery Wiring



Resources



Help Center



EI App - Android



EI App - iOS



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