Tigo

1. General Information - Specifications

ATTENTION - READ FIRST

- 1. This document is for general guidance only. Refer to the Energy Intelligence (EI) Inverter Installation & Operations Manual for more detail.
- 2. Before installing the system, verify that the package contents are intact and complete as per the packing list. Contact your dealer if there is equipment damage or missing components.

ATTENTION - Use the appropriate QSG's to perform the physical installation of the EI system in the following order:

- 1. EI Battery
- 2. EI Inverter
- 3. EI Link
- 4. EI BMS

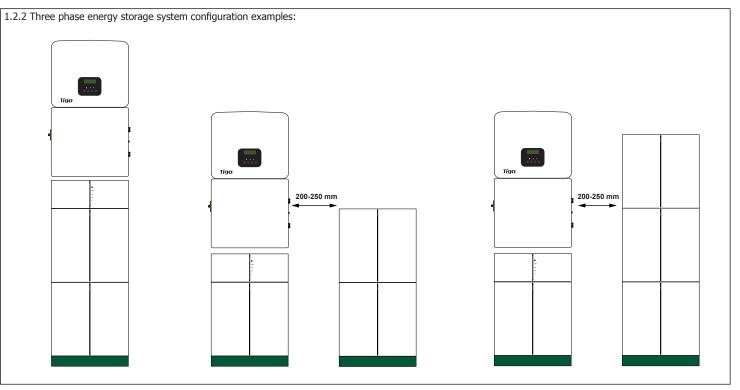






1.1 Package Contents

3MS:			Battery Module:		
Index	Item	Quantity	Index	Item	Quantity
1	BMS	1	1	Battery Module	1
2	BMS to Inverter Charging Cable (+) (2.0 m)	1	2	Battery Module Power Cable (690 mm)	1
3	BMS to Inverter Charging Cable (-) (2.0 m)	1	3	COMM Communication Cable (600 mm)	1
4	BMS to Battery Module Power Cable (120 mm)	1	4	M4 Screw	2
5	BMS Communication Cable (2.2 m)	1	5	Grounding Wire (450 mm)	1
6	COMM Communication Cable (200 mm)	1	6	Quick Start Guide	1
7	Tightening Wrench	1			
8	Wall Mounting Bracket	1	Accessories:		
9	M5 Screw	4	Index	Item	Quantity
10	Flat Washer	2		Battery Module Power Cable (1200 mm)	1
11	Grounding Wire (150 mm)	1	2	Battery Module COMM Communication Cable (1200 mm)	1
12	Lag Bolt	2	3	Grounding Wire (1200 mm)	1
13	Wall anchor	2	4	Battery Base	1
13	Wire protector	2	5	Cover Plate	1
			6	Wall Mounting Bracket	2
15	Mounting Base	1	7	Wire Protector Ring	4
16	Safety manual	1	8	M4 Screw	8
			9	Wall Bracket Accessories	1
			10	Battery Module to BMS Power Cable (2500 mm) [optional]	1



2. Installation

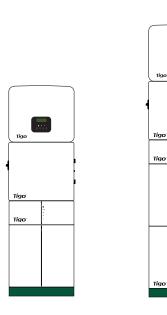
- 2.1 Battery Base
- 1. 2.
- Place the battery base 20 mm away from the wall. Adjust the battery base levelers if needed. Verify using spirit level.

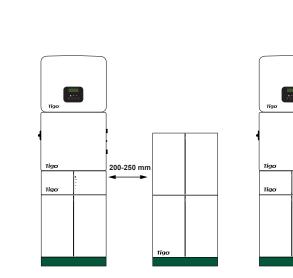
1.2 System Configuration

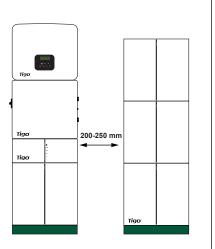
The EI Solution is ground mounted. All components stack together to form a complete unit. Extension batteries are installed to the right side of the main cabinet as shown below.

1.2.1 Single Phase energy storage configuration examples:

.....







20 mm

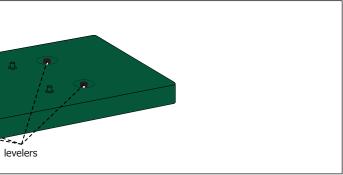
2.2 Battery Module(s)

1. Load the battery modules on the base as per Section 1.2.



EI Battery (Including EI BMS)

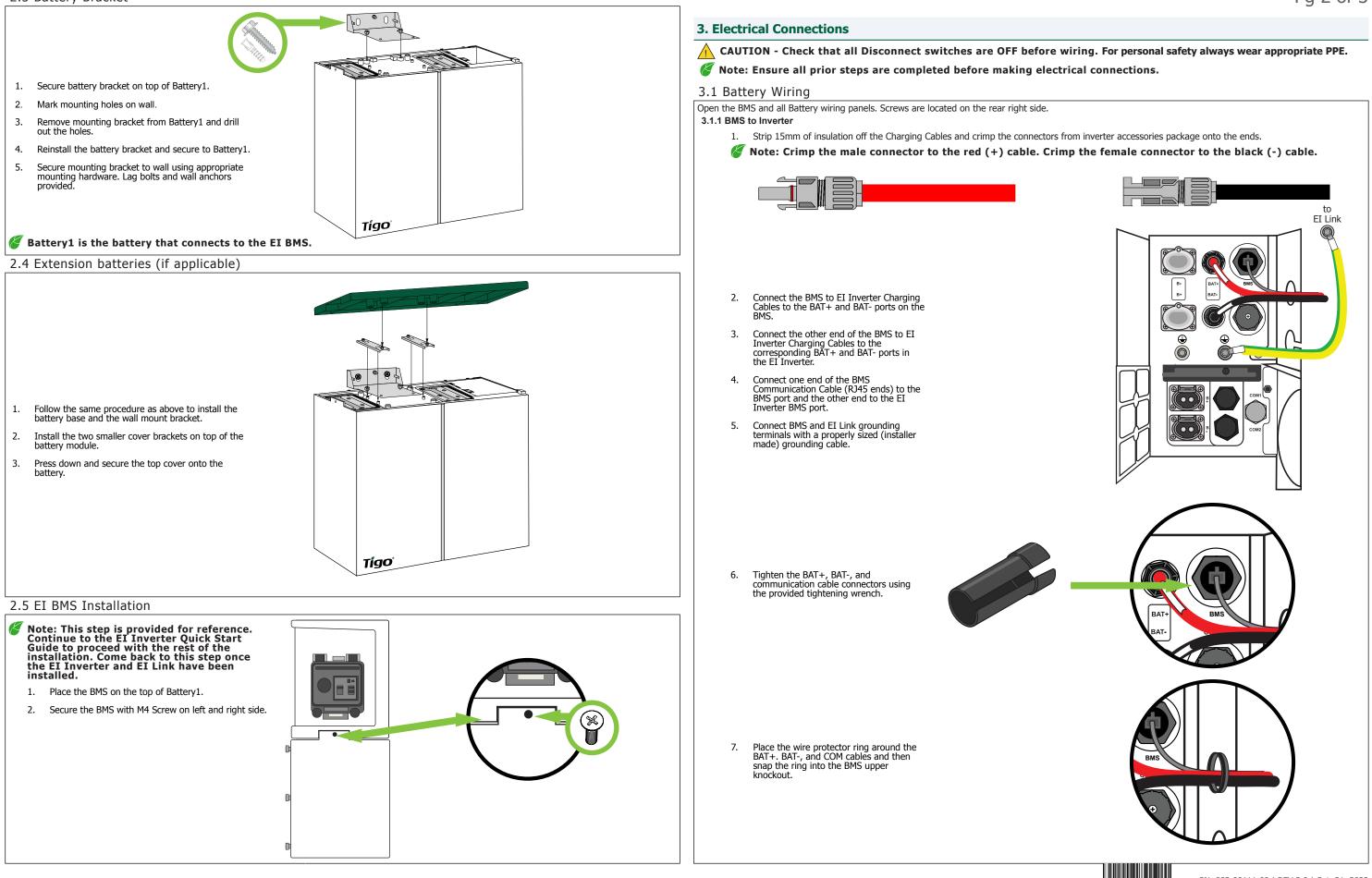
Quick Start Guide - EI BMS/TSB-3/EI Battery Accessories Pg 1 of 3



2. Secure the batteries on the left and right sides using the provided M4 Screws as shown.



Tigo 2.3 Battery Bracket



EI Battery (Including EI BMS) Quick Start Guide - EI BMS/TSB-3/EI Battery Accessories Pg 2 of 3

Tigo 3.1.2 Battery Connection (One Battery)

3.1.3. Battery Connections (Two Batteries)

1. BMS to Battery1 connections:

2. BMS to Battery2 connections:

3. Battery1 to Battery2 connections:

Battery1

Connect the following ports between the BMS, EI Inverter, and Battery1:

Note: Previous step's wiring not shown

- 1. Connect Battery Module Power Cable from BMS B+ to Inverter B+ port.
- 2. Connect Battery Module Power Cable from BMS B- to Inverter B- port.
- Connect Battery COMM cable from BMS COMM to Battery1 COM1 port. 3.
- Connect BMS Ground wire from BMS ground screw to Battery1 ground screw. 4.

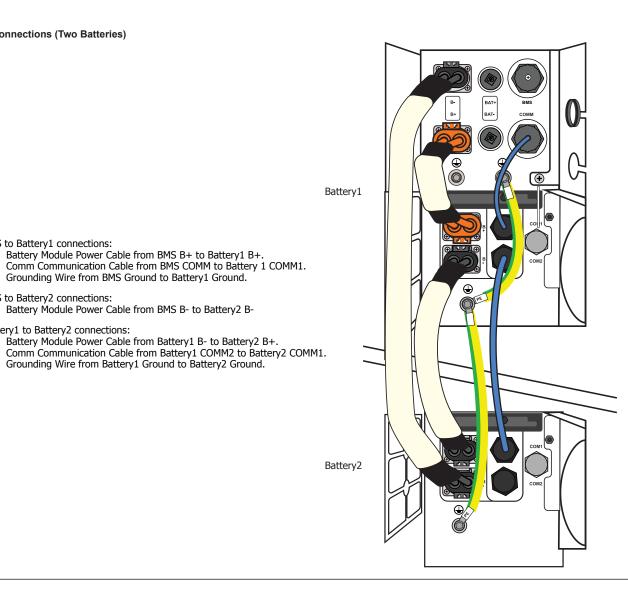
Battery Module Power Cable from BMS B+ to Battery1 B+.

Grounding Wire from BMS Ground to Battery1 Ground.

Battery Module Power Cable from BMS B- to Battery2 B-

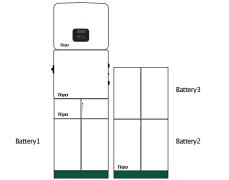
Grounding Wire from Battery1 Ground to Battery2 Ground.

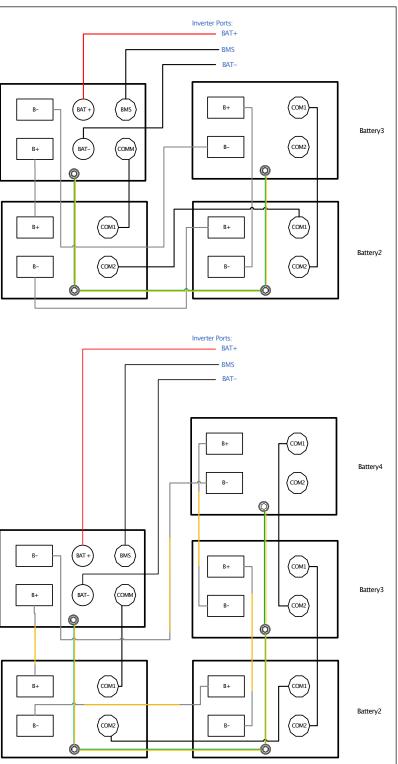
Comm Communication Cable from BMS COMM to Battery 1 COMM1.



3.1.4 Three Batteries

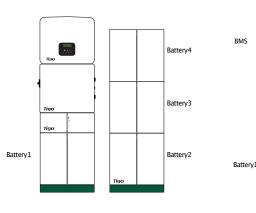
- BMS to Battery1: B+ to B+; COMM to COMM1; Ground to Ground 1.
- 2. BMS to Battery3: B- to B-
- Battery1 to Battery2: B- to B+; COMM2 to COMM1; 3. Ground to Ground
- Battery2 to Battery3: B- to B+; COMM2 to COMM1; BMS Ground to Ground 4





3.1.5 Four Batteries

- BMS to Battery1: B+ to B+; COMM to COMM1; Ground to Ground. 1.
- BMS to Battery3: B- to B-. 2.
- 3. Battery1 to Battery2: B- to B+; COMM2 to COMM1; Ground to Ground.
- 4. Battery2 to Battery3: B- to B+; COMM2 to COMM1; Ground to Ground.
- 5. Battery3 to Battery4: B- to B+; COMM2 to COMM1; Ground to Ground.





4. Your Customer Service Contact

Tigo Energy Italy Srl Via Calamandrei 36 52025 Montevarchi Tuscany, Italy

Americas: +1 408 402 0802 International: 00800 2255 8446





https://support.tigoenergy.com/

EI Battery (Including EI BMS) Quick Start Guide - EI BMS/TSB-3/EI Battery Accessories Pq 3 of 3



PN: 002-00111-00 | REV 3.0 | Oct. 21, 2022