

# **EI Battery (Including EI BMS)**

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

## 1. General Information - Specifications



## ATTENTION - READ FIRST

- 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



# 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

Index	Item	Quantity
1	BMS	1
2	BMS to Inverter Charging Cable (+) (2.0 m)	1
3	BMS to Inverter Charging Cable (-) (2.0 m)	1
4	BMS to Battery Module Power Cable (120 mm)	1
5	BMS Communication Cable (2.2 m)	1
6	COMM Communication Cable (200 mm)	1
7	Tightening Wrench	1
8	Wall Mounting Bracket	1
9	M5 Screw	4
10	Flat Washer	2
11	Grounding Wire (150 mm)	1
12	Lag Bolt	2
13	Wall anchor	2
14	Wire protector	2
15	Mounting Base	1
16	Safety manual	1

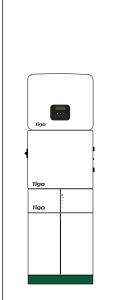
tery Module:			
Index	Item	Quantity	
1	Battery Module	1	
2	Battery Module Power Cable (690 mm)	1	
3	COMM Communication Cable (600 mm)	1	
4	M4 Screw	2	
5	Grounding Wire (450 mm)	1	
6	Quick Start Guide	1	

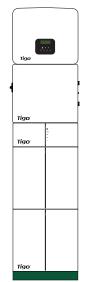
Accessories:				
Index	Item	Quantity		
1	Battery Module Power Cable (1200 mm)	1		
2	Battery Module COMM Communication Cable (1200 mm)	1		
3	Grounding Wire (1200 mm)	1		
4	Battery Base	1		
5	Cover Plate	1		
6	Wall Mounting Bracket	2		
7	Wire Protector Ring	4		
8	M4 Screw	8		
9	Wall Bracket Accessories	1		
10	Battery Module to BMS Power Cable (2500 mm) [optional]	1		

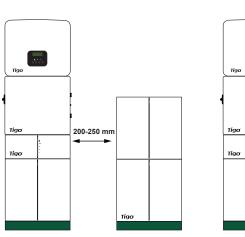
#### 1.2 System Configuration

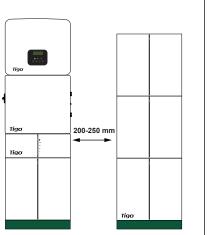
The EI Solution is ground mounted. All components stack together to form a complete unit. Extension batteries are installed to the right side of the main cabinet as shown below.

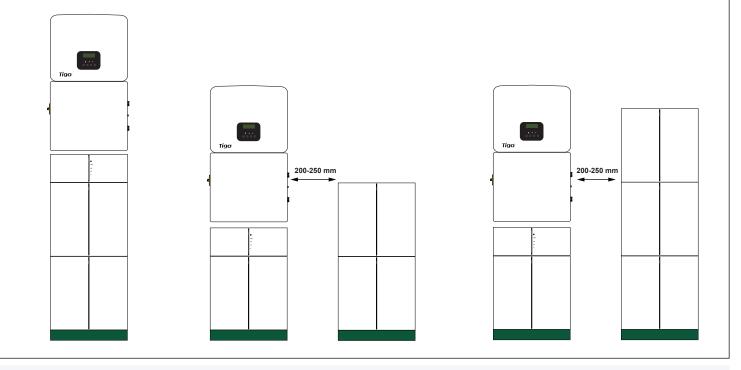
1.2.1 Single phase energy storage configuration examples:







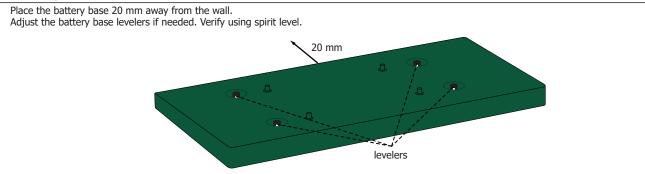




### 2. Installation

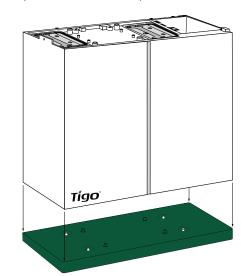
### 2.1 Battery Base

1.2.2 Three phase energy storage system configuration examples:



### 2.2 Battery Module(s)

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



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



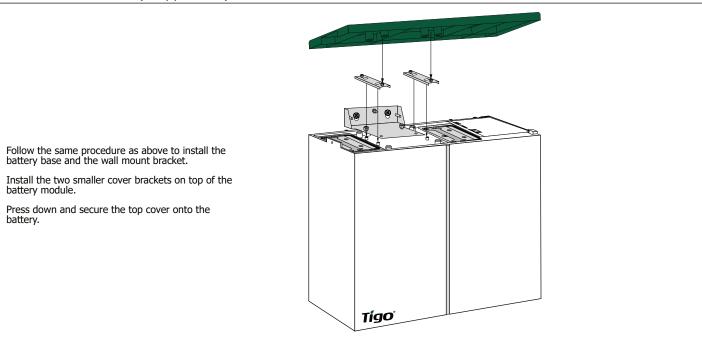




## 2.3 Battery Bracket

# 1. Secure battery bracket on top of Battery1. 2. Mark mounting holes on wall. 3. Remove mounting bracket from Battery1 and drill out the holes. 4. Reinstall the battery bracket and secure to Battery1. Secure mounting bracket to wall using appropriate mounting hardware. Lag bolts and wall anchors Tigo' Battery1 is the battery that connects to the EI BMS.

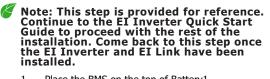
## 2.4 Extension Batteries (if applicable)



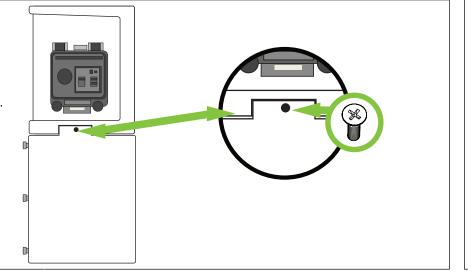
#### 2.5 EI BMS Installation

2.

3.



- 1. Place the BMS on the top of Battery1.
- 2. Secure the BMS with M4 Screw on left and right side.



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#### 3. Electrical Connections

CAUTION - Check that all Disconnect switches are OFF before wiring. For personal safety always wear appropriate PPE.

Note: Ensure all prior steps are completed before making electrical connections.

Open the BMS and all Battery wiring panels. Screws are located on the rear right side.

1. Strip 15mm of insulation off the Charging Cables and crimp the connectors from inverter accessories package onto the ends.

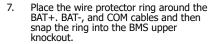


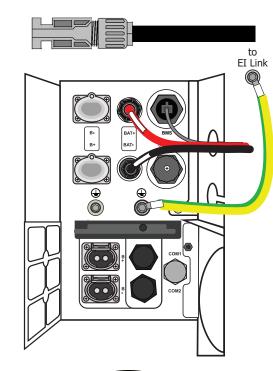


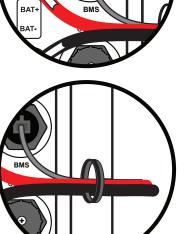
- Connect the BMS to EI Inverter Charging Cables to the BAT+ and BAT- ports on the
- Connect the other end of the BMS to EI Inverter Charging Cables to the corresponding BAT+ and BAT- ports in
- Connect one end of the BMS Communication Cable (RJ45 ends) to the BMS port and the other end to the EI Inverter BMS port.
- Connect BMS and EI Link grounding terminals with a properly sized (installer made) grounding cable.



Tighten the BAT+, BAT-, and communication cable connectors using the provided tightening wrench.







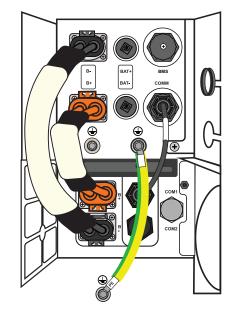




Note: Previous step's wiring not shown

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

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

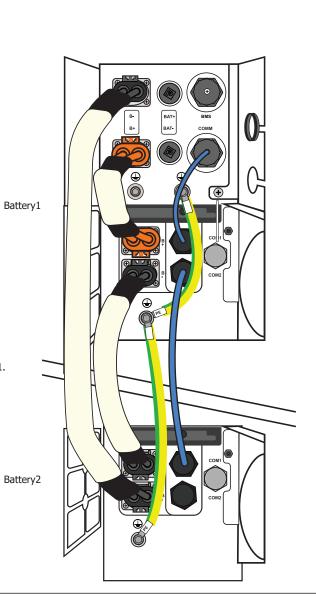


#### 3.3 Battery Connections (Two Batteries)

1. BMS to Battery1 connections:

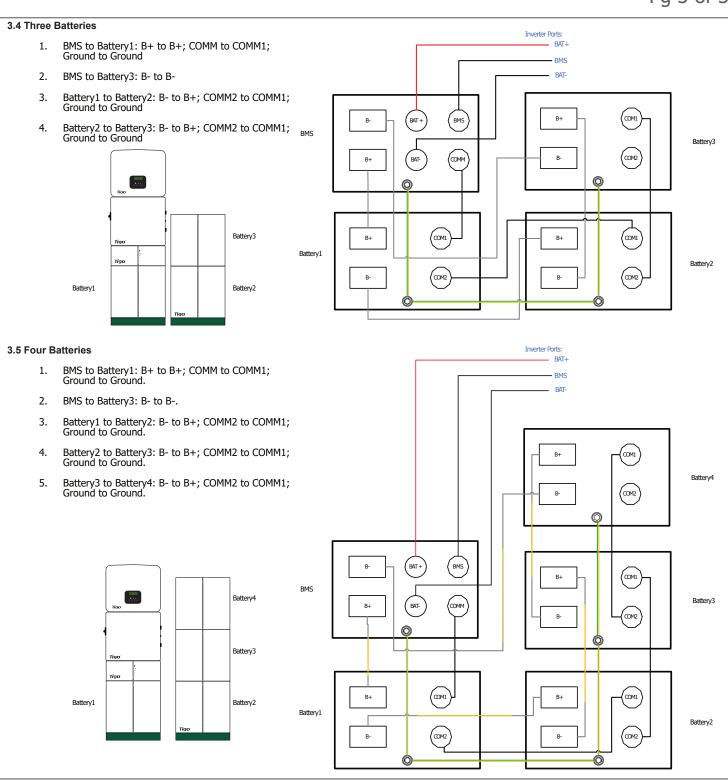
- Battery Module Power Cable from BMS B+ to Battery1 B+.
- Comm Communication Cable from BMS COMM to Battery 1 COMM1.
- Grounding Wire from BMS Ground to Battery1 Ground.
- BMS to Battery2 connections:
   Battery Module Power Cable from BMS B- to Battery2 B-
- 3. Battery1 to Battery2 connections:

  - Battery Module Power Cable from Battery1 B- to Battery2 B+.
    Comm Communication Cable from Battery1 COMM2 to Battery2 COMM1.
  - Grounding Wire from Battery1 Ground to Battery2 Ground.



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## **4. Your Customer Service Contact**

#### Tigo Energy Italy

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https://support.tigoenergy.com/







