EI Link - Three Phase

Quick Start Guide - TSS-3PS

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:

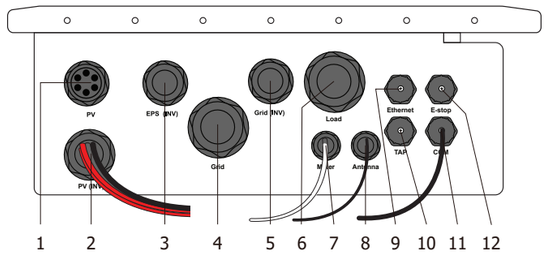
1. **EI Battery**
2. **EI Inverter**
3. **EI Link**
4. **EI BMS**

EI Inverter | EI Battery | EI Link

1.1 Package Contents

Index	Item	Quantity
1	EI Link	1
2	EI Link bracket	1
3	Bridge bracket	1
4	6mm² ferrules	8
5	Flange nut	2
6	(Wall anchor, flat washer, lag bolt)	2
7	16mm² grounding terminal	1
8	16mm² ferrules	10
9	Rubber plug	2
10	TAP	1
11	Waterproof RJ45 connector	3
12	Antenna (CCA)	1
13	Quick installation guide	1

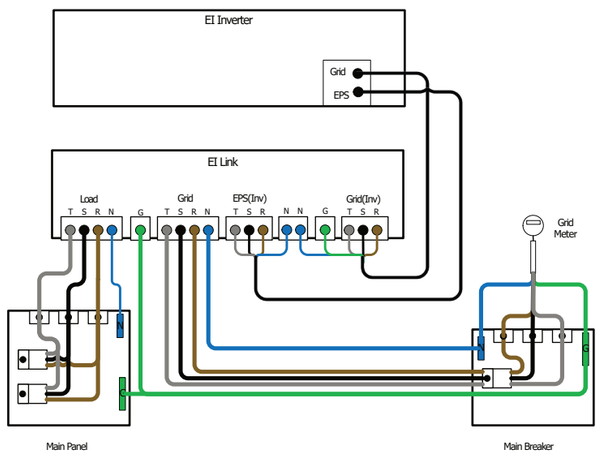
1.2 EI Link Overview



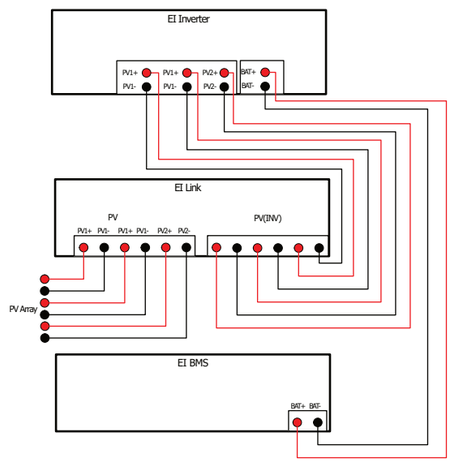
1. PV
2. PV (INV) (preinstalled)
3. EPS (INV)
4. Grid
5. Grid (INV)
6. Load
7. Meter (preinstalled)
8. Antenna (preinstalled)
9. Ethernet
10. TAP
11. COM (preinstalled)
12. E-stop

1.3 Wiring Diagrams

AC Connections



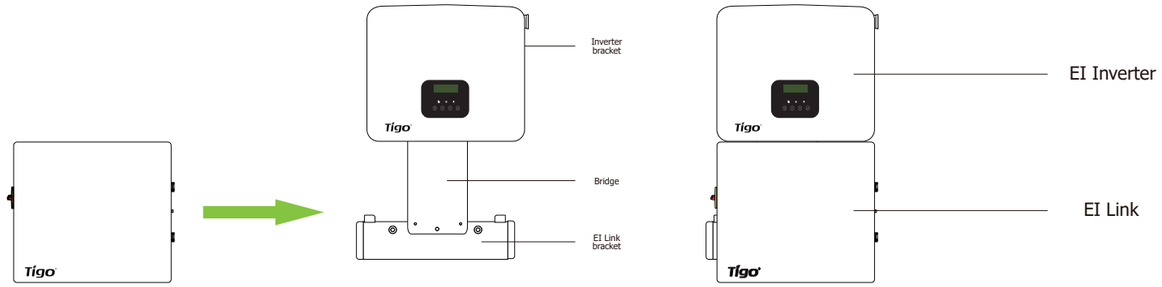
DC Connections



2. Installation

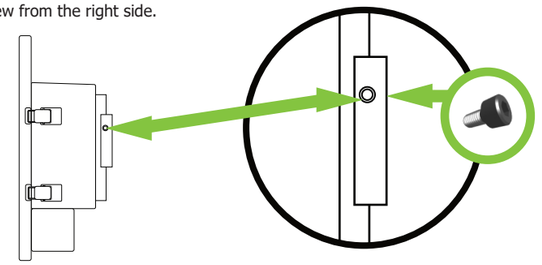
2.1 Mount EI Link

Slide the EI Link on the EI Link bracket below the EI Inverter



2.2 Secure EI Link

Remove the door and plastic cover of EI Link, slide it on to the middle bracket and lock it with the M5 screw from the right side.

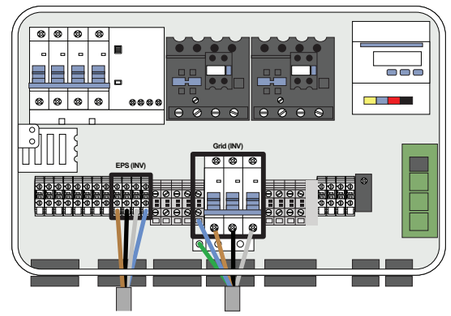


3. Electrical Connections

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

3.1 Connect Inverter to EI Link

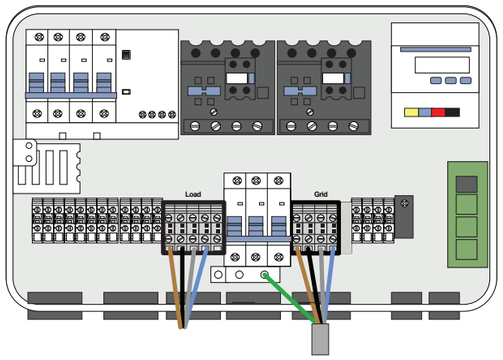
1. Run the EPS and grid cables from inverter through the strain reliefs.
2. Connect them to the EPS(INV) and Grid(INV) terminals accordingly (refer to the back of the EI Link door).
3. Attach the grounding wire to the grounding bar. Torque to 1.5 NM.



EPS (INV)				Grid (INV)				
R (21)	S (22)	T (23)	N (24)	R (17)	S (18)	T (19)	N (20)	PE2

3.2 GRID and Load

1. Run the grid and load wires through the strain relief into the EI Link.
2. Strip 12 mm off wire ends and crimp on 16mm² ferrule.
3. Connect the wire ends into the appropriate GRID and LOAD terminals. Torque to 1.5 NM.
4. Crimp the grounding cable with provided 16mm² grounding terminal.
5. Connect grounding cable to ground bar and torque to 1.5 NM.
6. Terminate the opposite end of the grid and load cable at the main service panel and backup panel with the appropriate tools.

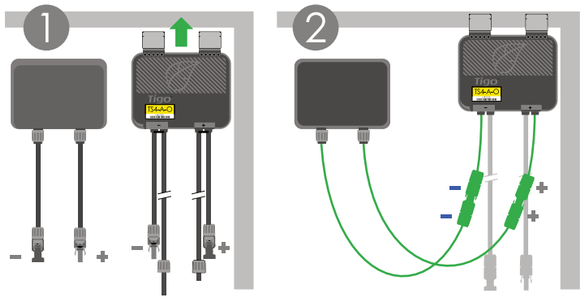


Load				Grid				
R (13)	S (14)	T (15)	N (16)	R (26)	S (27)	T (28)	N (29)	PE2

3.3 TS4

⚠ **CAUTION - To prevent damage to the TS4, always connect PV modules to the TS4 input before connecting output conductors in the string. Refer to the TS4 Installation Manuals for the TS4 installation requirements.**

1. Install the TS4 module-level power electronics (MLPE) on the back of the PV modules.
2. Connect the PV module to the TS4 input conductors.
3. Connect the TS4 output conductors together to form a string.
4. If using the TS4-A-F/TS4-A-2F, no additional steps are necessary.
5. Remove each barcode sticker from the TS4-A-O and place in the grid on the last page of this document in the position and orientation of the module as it is in the array. If using the TS4-A-F/ TS4-A-2F, this step is not necessary.

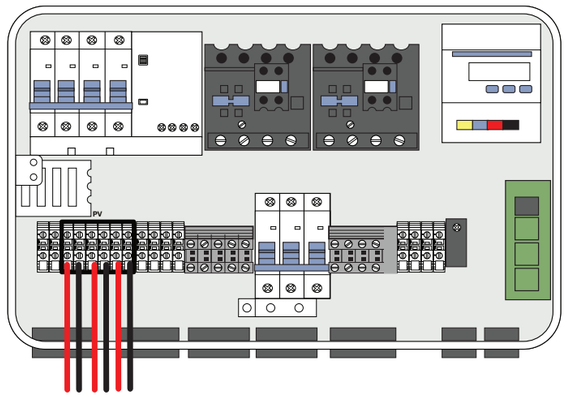


Scan here for the TS4 downloads

Downloads

3.4 Connect PV Array

1. Run the PV wires through the strain relief into the EI Link.
2. Strip 12 mm off wire ends and crimp them with the provided 6mm² ferrules.
3. Press the wires into the appropriate PV + and PV - terminals (Refer to the wiring diagram at the back of the EI Link door.



PV					
PV 1+	PV 1-	PV 1+	PV 1-	PV 2+	PV 2-

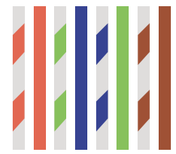
3.5 TAP

1. Using CAT5/6, crimp the wires onto the RJ-45 male plug using the pin out diagram below.
2. Connect the other end of the wires to the corresponding terminals in the TAP as shown.

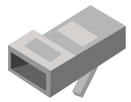
RJ45 Pin	Wire color (T568B)	Signal definition	Function
1	White/Orange	GND	12vDC- from CCA
2	Orange		
3	White/Green	VCC	12VDC + from CCA
4	Blue		
5	White/Blue	N/A	Not in use
6	Green		
7	White/Brown	RS485B	RS485 communication with CCA
8	Brown	RS485A	

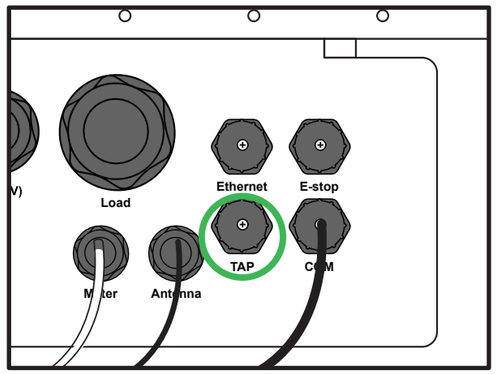
T568B

1 2 3 4 5 6 7 8

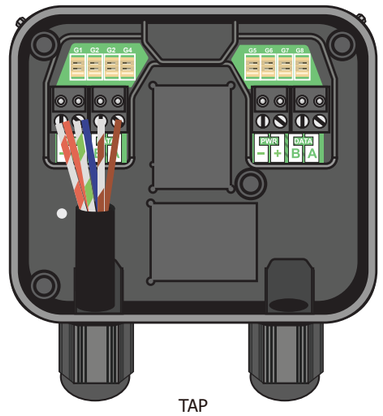


RJ-45 Male Plug





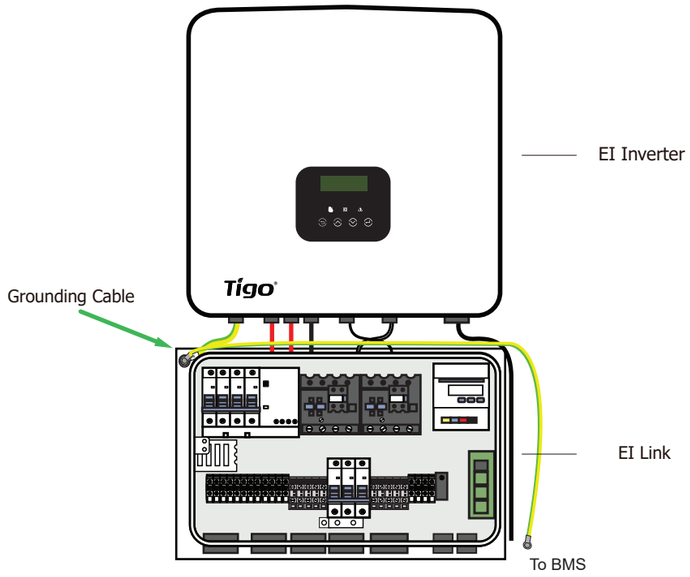
EI Link



TAP

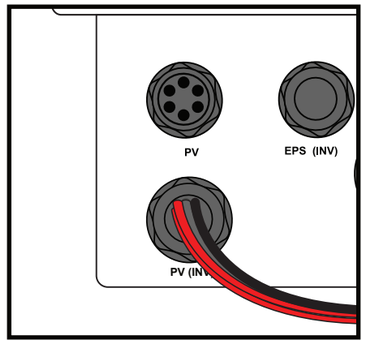
3.6 Connect External Grounding

1. Connect the grounding cable from the EI Inverter to the EI Link as shown.
2. Torque to 1.5 NM
3. Connect the grounding cable from the EI BMS (when installed) to the EI Link as shown.
4. Torque to 1.5 NM

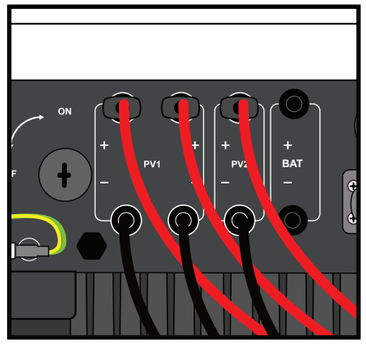


3.7 EI Link PV connections to EI Inverter

1. Connect EI Link PV (INV) preinstalled cables to EI Inverter PV1+/- and PV2+/-.



EI Link



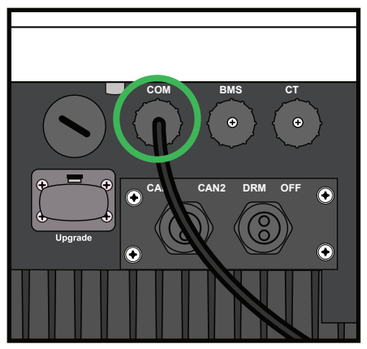
EI Inverter

4. Communication

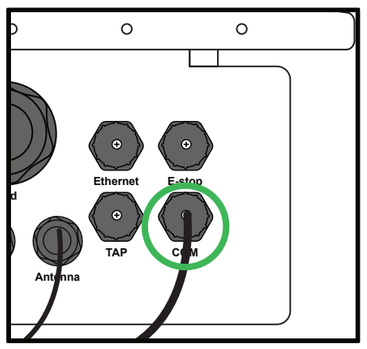
4.1 EI Link COM

Refer to the EI Inverter Quick Start Guide for the EI Link to Inverter communication connection. Connect the EI Link COM wire to the EI Inverter COM port.

Note: You must make this connection before powering up the system!



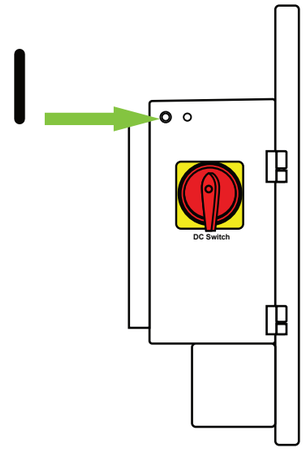
EI Inverter



EI Link

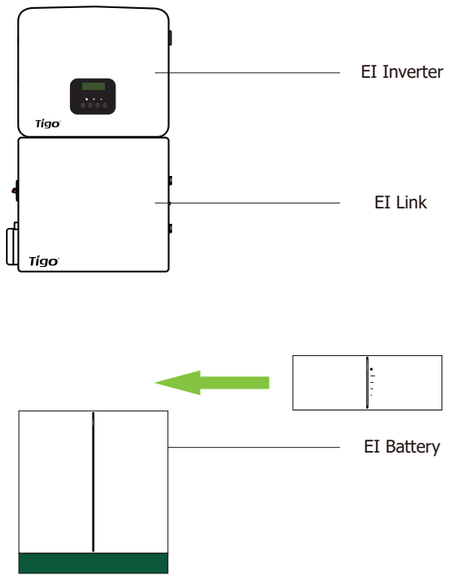
4.2 Connect the CCA Antenna

Carefully screw WiFi antenna in the WiFi antenna port on the top left corner of the EI Link.



5. BMS Installation

Note: Proceed to the Battery Quick Start Guide Section 2.5 for the next part of the installation.



Battery QSG QR Code

6. Your Customer Service Contact

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