



EI Residential Solar Solution

Quick Start Guide – EI Inverter



- All components must be installed and maintained by qualified personnel in accordance with applicable electrical codes.
- Always wear appropriate PPE and use insulated tools.
- Improper installation may cause damage not covered by the warranty.

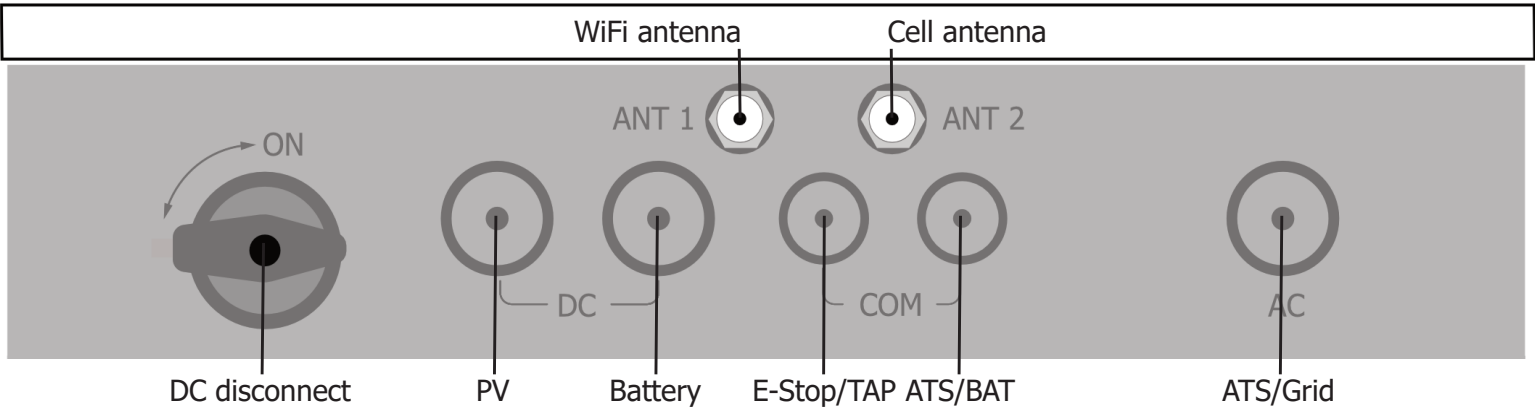
Use this guide in conjunction with the Quick Start Guides (QSG) included with the Tigo EI ATS, EI Battery, and TS4s. Detailed installation documentation for all Tigo products is available at www.tigoenergy.com/Downloads.

Order of Installation

Install an EI system in this order:

1. Install TS4s and the Tigo Access Point (TAP) anytime before wiring the inverter.
2. Mount the ATS and connect it to the grid. To enable household power pending commissioning, use the ATS manual bypass feature described in the ATS QSG.
3. Mount the inverter and E-Stop rapid shutdown switch.
4. Place the battery.
5. Wire communications and power connections.
You must install communications connections.
6. Connect an antenna.
7. Commission the system.

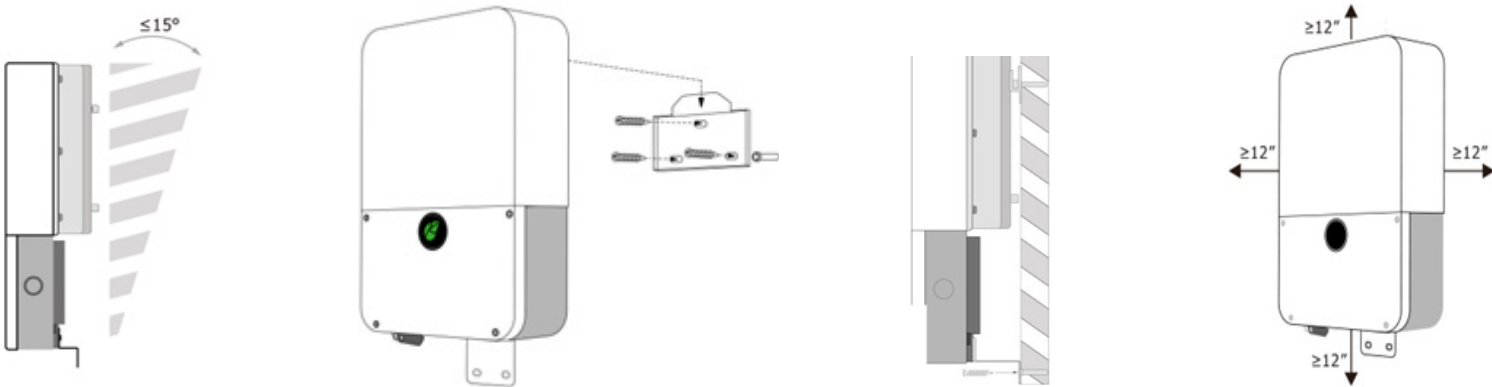
Inverter Bottom Panel



Enclosure Mounting

Locate all EI enclosures:

- In a well-ventilated, easily accessible location.
- On a flat surface against a solid wall without tilt.
- Away from antennas and electromechanical interference.



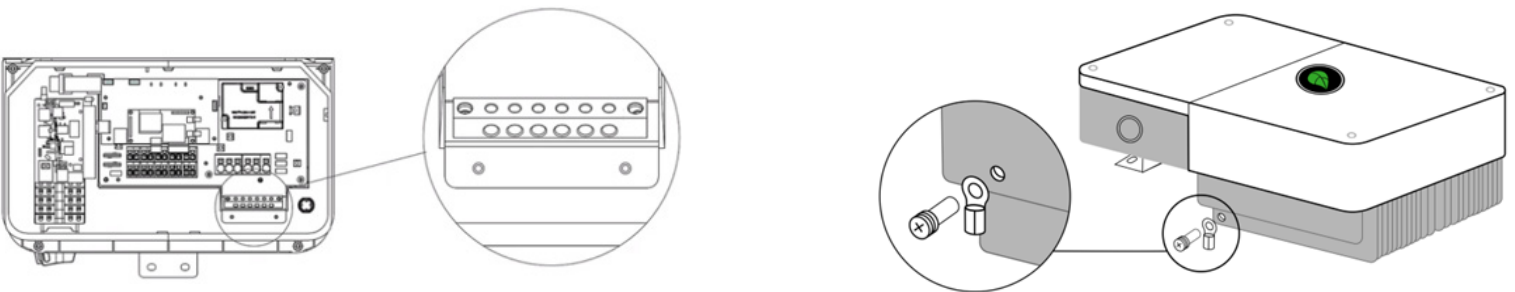
- Sheltered from direct sunlight and precipitation with ambient temperature <50°C.
- Above potential flooding.

Inverter Grounding Points

Enclosure grounding conductors: 10 – 8 AWG

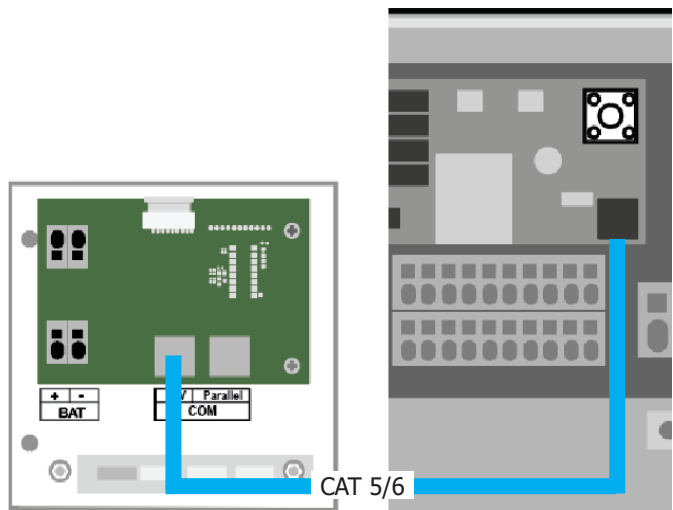
Equipment grounding conductor (EGC) busbar:

Grounding electrode conductor (GEC) terminal:



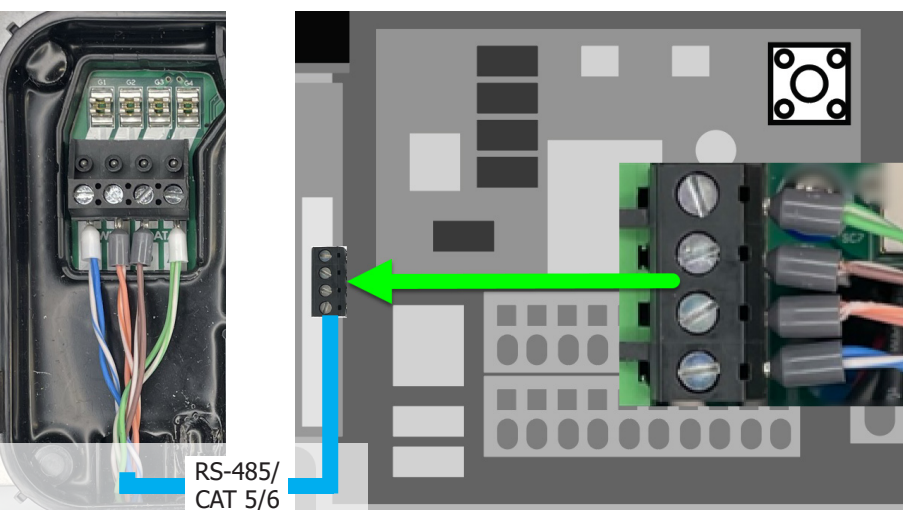
Communication Connections

Battery – Inverter

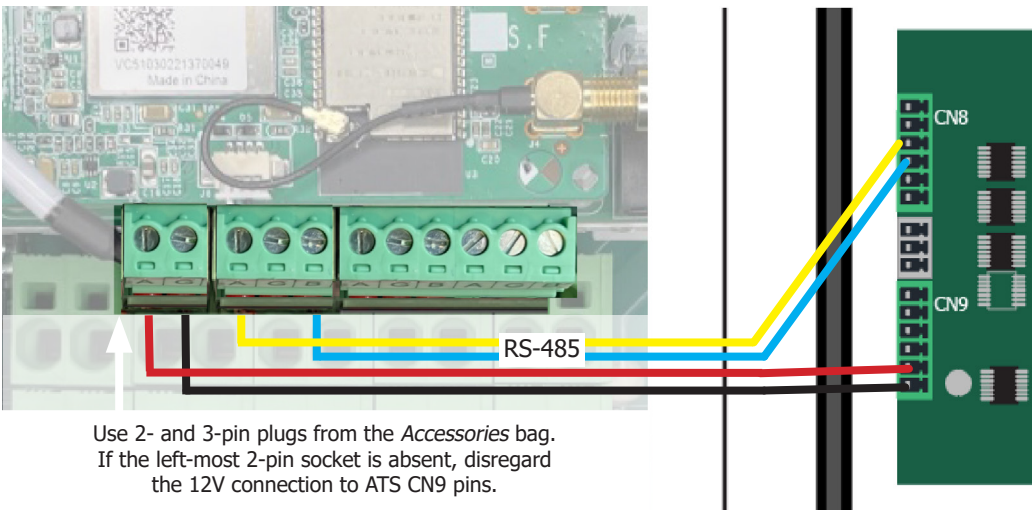


TAP – Inverter

For TS4-A-O/S/M



Inverter – ATS



Use 2- and 3-pin plugs from the Accessories bag.
If the left-most 2-pin socket is absent, disregard the 12V connection to ATS CN9 pins.





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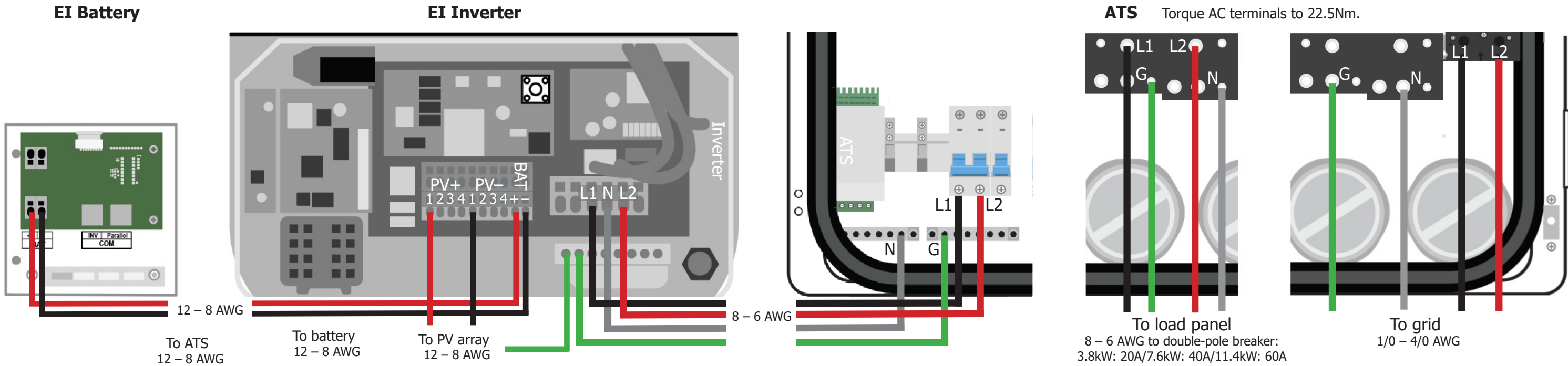
EI Battery



EI ATS

Power Connections

Use copper, non-stranded wire with ferrules.

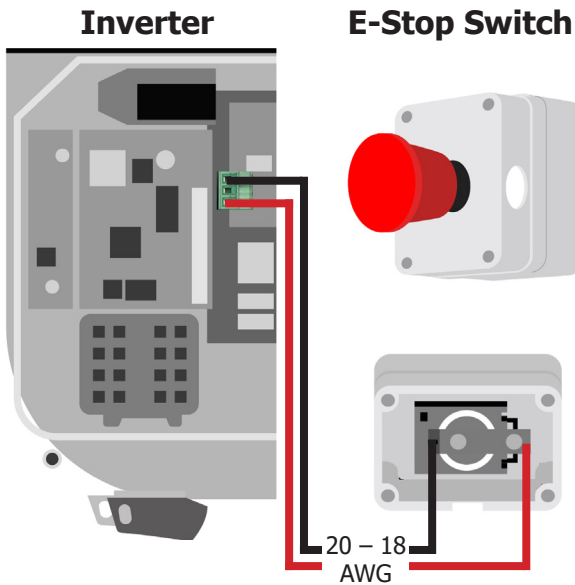
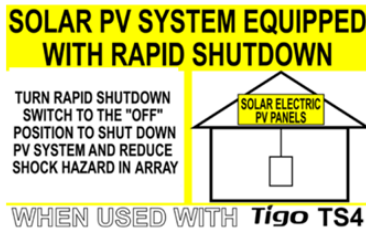


E-Stop Rapid Shutdown Switch

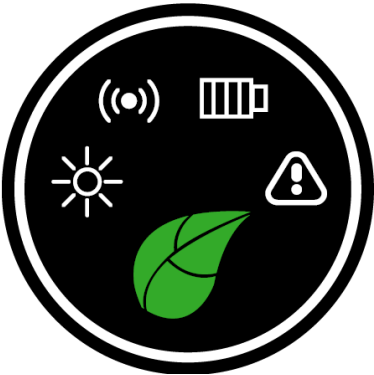
Required if using a battery.

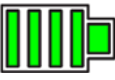
Mount the E-Stop switch within a few feet of the inverter or service entrance outside the residence. It must be clearly visible and accessible to first responders and maintenance workers.

Affix the rapid shutdown label within 3ft of the E-Stop switch.



Inverter System Status Indicators



Symbol	Action	Description
 Power	Continuous	Feed in grid
	Flashing .3s on/1s off 1s on/3s off .5s on/.5s off 2s on/2s off	DC on/AC off DC off/AC on Checking Standby mode
	Off	Disconnected
	Continuous	4G/WiFi, local WiFi ok
 Communications	Flashing .5s on/.5s off 1s on/1s off 1s on/3s off	Local WiFi connecting 4G/WiFi failure, local WiFi ok Local WiFi failure, 4G/WiFi ok
	Off	Failure
	Continuous	Operating normally
 Battery	Flashing 1s on/3s off .5s on/.5s off	Low charge state Fault detected
	Off	Disconnected
	Continuous with audible alarm	Fault Arc fault
 Fault	Flashing 1s on/1s off	Warning
	Off	No faults detected

Commissioning

Commission the system after double-checking all connections and installing the Tigo EI mobile app.

- Turn ATS breakers and the inverter and battery DC disconnects to ON.
- Turn on disconnects/breakers between the grid and the ATS.
- Ensure the E-Stop shutdown button is not engaged.
- If the inverter does not start, force-start the battery by removing

the start button cover and pressing until the green leaf status LED flashes rapidly.

- Ensure Bluetooth is enabled on your mobile device, open the Tigo EI app, and tap + to create a new system.
- Open *Select Equipment*, tap *Scan*, and select *EI Inverter*.
- Complete the commissioning process in the Tigo EI app. For detailed instructions, visit the tigoenergy.com [Help Center](#).

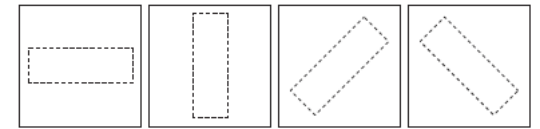




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TS4 Map Place TS4-A-O/S barcode/QR stickers in the grid below per the system azimuth and layout for scanning into the EI app. For example:







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