

1. General Information

ATTENTION - READ FIRST

- 1. This document is for quick guidance only. For details, please refer to the Energy Intelligence (EI) ATS Installation & Operations Manual.
- 2. Damage caused by failure to follow the contents of the EI ATS Installation & Operations Manual is not covered by the warranty.
- 3. Before installing the system, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.

1.2 Required Tools

Item

Drill Level

Screwdriver

Wire cutter/crimp tool

Rubber mallet/hammer

CAUTION – Use tools with insulated handles. Always wear appropriate PPE.

1.1 Package Contents

Item	Quantity	
TSS-50-US ATS	1	Box
Quick Start Guide	1	Box
Sleeve anchors	3	Bag
Mounting screws	2	Bag
O-type terminal	3	Bag
Wire ferrules	9	Bag
Keys	2	Bag
Mounting bracket	1	Box

1.3 AC wiring diagram



1.4 EI ATS Overview



2. Installation



Conductor Schedule						
Conductor	Quantity	Туре	Size			
Grid	3		L1, N, L2: 8-6AWG			
Inv Backup	2	Min. 90°C rated, insulated, copper, solid or	L1, L2: 8-6AWG			
Load	3	Standed (not nice Standed)	L1, N, L2: 8-6AWG			
Load EGC	1					
Grid EGC	1	Min. 90°C rated, insulated or bare, copper, solid or stranded (not fine stranded) EGC: 8-6AW				
Inv backup EGC	1					

EI Automatic Transfer Switch (ATS) Quick Start Guide - TSS-50-US Pg 1 of 2



3.2 Inverter connections

- Note Refer to section 3.4 Backup output connections in the EI Inverter quick start guide for the connection of these conductors in the inverter.
- Loosen screws in positions L1 and L2 at the INPUT INV terminals. 1.
- 2. Insert the L1 and L2 inverter backup conductors into the INPUT INV
- L1 and L2 terminals. Tighten screws to 2.5Nm. 3.
- Secure the inverter EGC to the ground busbar. 4



3.3 Grid connections

CAUTION - Two control lines are terminated to positions 3 and 5 of the contactor. These are necessary for the operation of the ATS. **DO NOT REMOVE. Note** – The opposite end of the GRID conductors is fed from the main service panel by a 50A circuit breaker. Loosen screws in positions L1, N, and L2 at the INPUT GRID 1. terminals. Insert the L1, N, and L2 grid conductors into the INPUT GRID L1, 2 N, and L2 terminals. Tighten screws to 2.5Nm. 3. Secure the GRID EGC to the ground busbar. 4 INPUT LOAD LOAD L1 N L2 GRID INPUT IN L1 L2 L1 N L2 3.4 Backup connections **Note** - The opposite end of the BACKUP load conductors feed



4. Pre-power checklist

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✓	Check Item	A
	ATS installation	The ATS is installed correctly, securely and reliably.
	Conduit/Cable layout	Conduit/cables and conductors are routed properly, and
	Cable connections	The AC output conductors, DC input conductors, and con
	Cable ties	Cable ties are secured evenly with no sharp protrusions.
	Grounding	Ground conductors are connected correctly, securely and
	Conduit connections	All conduit attachments are sealed and bonded, when ne
	Unused conduit openings	Any unused conduit openings are fitted with waterproof
	Disconnect switches	All external disconnect switches connecting to the ATS a
	Wirebox cleanliness	The wirebox is left clean and tidy.
	Installation environment	An appropriate installation space had been chosen and t

5. Commissioning

🛕 CAUTION – For personal safety always wear appropriate PPE.

After completing the Pre-power checklist, close the cover.

If the battery, inverter, backup load panel installations are already complete, the system may now be turned on for operation. Follow the EI Inverter's Commissioning instructions (Section 6) to commission the system.

Keep the instruction manual and keys nearby.

6. Troubleshooting

Issue	
In grid-on operation the ATS does not switch over when there is loss of grid.	 Turn OFF the EI Inverter and the grid. Open the ATS door and check the grid and it If issues persist, please contact Tigo Custon
Backup load panel has no power.	 Turn OFF the EI Inverter and the grid. Open the ATS door and check the control lir terminals. If issues persist, please contact Tigo Custon

7. Your Customer Service Contact

Tigo Energy, Inc.

655 Campbell Technology Pkwy Campbell, CA 95008





T: +1 408 402 0802 https://support.tigoenergy.com/

EI Automatic Transfer Switch (ATS) Quick Start Guide - TSS-50-US Pq2 of 2

cceptance Criteria

as requested by the customer.

mmunications cables are labeled and connected correctly and securely.

d reliably.

ecessarv.

caps or left unopened. are in the OFF position

the environment is left clean and accessible.

Check

INV conductors are properly connected to the correct terminals. mer Service team.

ne, the INV and BACKUP conductors are properly connected to the correct

mer Service team.

