



200 A model (TSS-200-US)

EI Automatic Transfer Switch (ATS)

50 A, 200 A, 200 A w/generator support

The Tigo ATS is a required component for a Tigo EI Residential Solar Solution grid-tied energy storage solution (ESS). When the ATS detects a loss of grid power, it quickly and safely switches to solar/battery/generator power only. It then restores normal grid-tied operations when power returns.

Benefits

- Enables automated whole-home or essential-load backup
- Supports increased backup power and duration by connecting a home generator (200 A w/ generator support model)
- Provides comprehensive monitoring data with the Tigo EI mobile app and portal
- Reduces main panel upgrades and derating with integrated service disconnects (200 A models)

Features

- 120 V_{AC} and 240 V_{AC} split-phase output
- Manual bypass switch
- NEMA 4X/IP65 enclosure – dust/watertight
- Main circuit breaker (200 A models) and main lug only (50 A model) panelboards
- Pure sine wave generator support – up to 24 kW with 2-wire start (200 A w/generator support model)

Specifications

	50 A	200 A
Inverter Input		
# of inverter inputs	1	
Nominal voltage	240 V	
Nominal frequency	50/60 Hz	
Maximum power	11400 W	
Maximum continuous current	48 A	
Rated AC power from backup	10,000 W	11,400 W
Maximum AC power from backup	11,400 W	
Continuous current from backup	42 A	48 A
Maximum AC current from backup	48 A	
AC circuit breaker	none	60 A
Grid		
Nominal voltage	240 V	
Operating voltage range (L-L)	180 – 270 V	
Nominal frequency	50/60 Hz	
AC frequency range	45 – 65 Hz	
Maximum power	12,000 VA	48,000 VA
Maximum cont. input current	48 A	160 A
Maximum input current	48 A	200 A
Grid to inverter switchover time	<2 sec.	<500 msec.
Output (single phase)		
Rated power (L-L)	10,000 VA	
Rated power (L-N)	5,000 VA	
Output voltage	120/240 V _{AC}	
Maximum continuous current (L-N)	25 A@120 V _{AC}	
Maximum continuous current (L-L)	48 A@240 V _{AC}	
Backup imbalance compensation	3000 W	



- TSS-50-US – UL 1741, CSA C22.2 No. 107.1
- TSS-200-US/G – UL 1741, UL 869A, CSA 22.2 No. 107.1, CSA 22.2 No. 0.19

Specifications

	50 A	200 A
General		
Cooling	Natural convection	
Ingress protection	NEMA 4X (IP65)	
Installation	Wall mount	
Warranty	11 years	
Manual control bypass switch	No	Yes
Communications	No	RS-485
Energy meter inport/export	No	±1% accuracy
Noise	<25 dB	<35 dB

	50 A	200 A
Environmental		
Height/width/depth	480/275/105 mm (18.9/10.8/4.1 in.)	455/550/245 mm (17.9/21.6/9.6 in.)
Weight	15.6 kg (34.3 lb.)	29.5 kg (65 lb.)
Operating temperature	-25 – 50 °C (-13 – 122 °F)	-25 – 50 °C (-40 – 122 °F)
Operating humidity	Up to 100%	
Maximum elevation	3000 m (9842 ft.)	
Noise	<25 dB	<35 dB

200 A TSS-200-US-G only

Generator Support*	
Maximum rated AC power	24,000 W
Maximum continuous input current	100 A
Nominal voltage	240 V
Operating voltage range (L-L)	180 – 270 V
Nominal frequency	60 Hz
Operating frequency range	45 – 65 Hz
Operating frequency range during battery charging	55 – 65 Hz
Dry contact switch voltage rating	250 V _{AC}
Dry contact switch current rating	5 A
2-wire start	Yes
Off-grid to generator switchover	<500 msec.
Generator to off-grid switchover	<600 msec.

* Generator requirements:

- Pure sine wave output
- A two-wire start signal circuit
- Capacity equal to or greater than inverter wattage (maximum 24,000 kW)

Ordering Information

Description	Name	Part Number
50 A ATS main lug only (MLO)	TSS-50-US	604-00050-00
200 A ATS main circuit breaker (MCB)	TSS-200-US	801-200200-0201
200 A ATS MCB w/ generator support	TSS-200-US-G	801-200200-0301

More Resources

