



EI Inverter

TSI-7.6/11.4K-US Specification

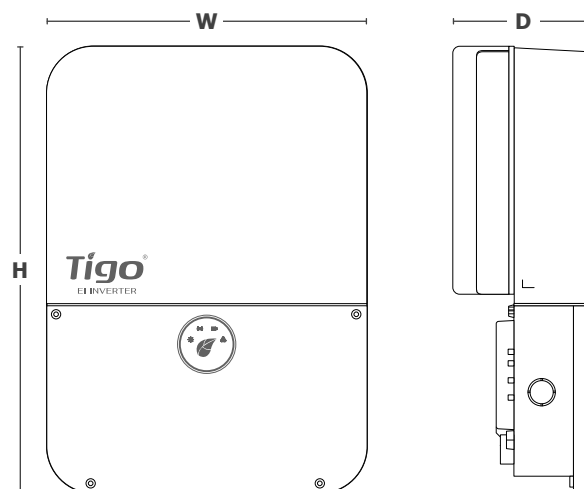
The Tigo EI Inverter is the centerpiece of the Tigo Energy Intelligence (EI) solution. It orchestrates energy production and the consumption (when coupled with the Tigo EI Battery). In addition, it enables module level monitoring, optimization, and rapid shutdown when paired with Tigo TS4 MLPE (Module Level Power Electronics) through the EI platform.

Features

- Available in 7.6 kW and 11.4 kW models
- Storage-ready 'hybrid' inverter
- Flexible for both DC and AC coupled system
- Up to 200% DC oversizing (2:1 DC/AC ratio)
- 50V starting voltage
- Multiple MPPTs (3 and 4)
- Built in Wi-Fi and Cellular communication (optional)
- Lightweight (32 lb/45 lb)
- <10 mins commission with EI App (incl. Tigo TS4)

Dimensions

	7.6K	11.4K
Dimensions (W x D x H)	400 x 170 x 570mm (15.75 x 7 x 22in)	400 x 187 x 638mm (15.75 x 7.4 x 25.2in)
Weight	14.65kg (32.3lbs)	20.5kg (45.2lbs)



Standard
Warranty



Powered by Tigo
Energy Intelligence



NEC Rapid Shutdown
Compliant

Input Data	7.6K	11.4K
Max. Recommended PV Power (STC)	15200W	22800W
Max. DC/AC Ratio	2	
Max. DC System Voltage	600V	
Startup Voltage	50V	
Nominal Voltage	360V	
Operating Voltage	50V~550V	
No. of MPPT	3	4
No. Of PV Strings per MPPT	2	2
Max. Input Current per MPPT (Imp / Isc)	13.5A / 16.9A	

Input/Output Data (Battery)

I/O Voltage Range	360V~550V
Nominal DC Voltage	400V
I/O DC Current	14.3A
I/O DC Power	5000W
Battery Technology	LFP
Battery Capacity per enclosure	9.9kWh or 19.8kWh

Output Data (AC)

AC Nominal Power@240V AC	7600W	11400W
AC Nominal Power@208V AC	6580W	9880W
Max. AC Apparent Power	7600VA	11400VA
Nominal AC Voltage	208V/240V	
AC Voltage Range @208V AC / @240V AC	183V~229V / 211V~264V	
AC Grid Frequency	50/60Hz	
AC Grid Frequency Range	45~65Hz	
Max. Output Current	32A	48A
Power Factor(@Normal Power)	>0.99	
Adjustable Power Factor	0.8 Leading~0.8 Lagging	
THDI	<3%	
AC Grid Connection Type	L1/L2/N/PE	

Output Data (Backup)

Max. Continuous Power	5000W
Peak Power	6000W
Nominal AC Voltage	240V
Max. Output Current	25A
THD	5%

Efficiency

Max. Efficiency	98.4%	98.5%
CEC Efficiency @240V AC / @208V	97.5% / 97.0%	98.0% / 97.5%

Protection Devices

DC Reverse-polarity Protection	Yes
DC Disconnect Switch	Yes
DC Surge Protection	Type II
Insulation Resistance Monitoring	Yes
AC Surge Protection	Type III
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Anti-Islanding Protection	Yes
Residual-current Monitoring Unit	Yes
AFCI Protection	Yes
PVRSS Rapid Shutdown	TS4-A-F, TS4-A-O
Module-level Monitoring	TS4-A-O

General Data

Operating Temperature Range	-25°C ~ +60°C (-13°F ~ +140°F) de-rating above 45°C/113°F
Altitude	3000m (9843ft)
Internal Consumption at Night	<1W (for PV Inverter) / <5W (for storage inverter)
Cooling	Natural Convection
Electronics Protection Degree	NEMA 4X (IP65)
Relative Humidity	0~95%

Interfaces

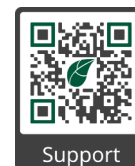
RS485	Yes
WIFI/4G Communication	WIFI Standard / 4G Optional
Warranty	152 months
Revenue Grade Meter	ANSI C12.20 (meets 0.5% accuracy)

Certifications

UL 1699B, UL 1741, UL 1741 SA, CSA C22.2, IEEE 1547, CA Rule 21, Rule 14 (HECO compliant), FCC part 15 class B, PVRSS



Additional resources



tigoenergy.com

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