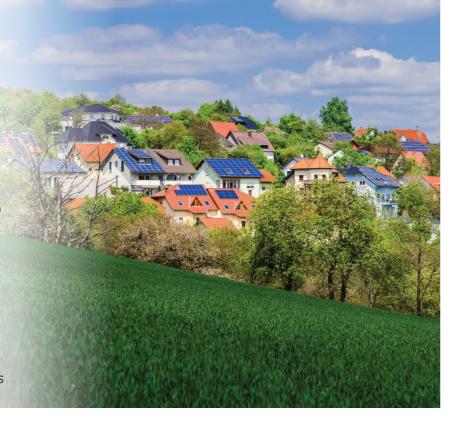
Tigo is dedicated to your success

More customers

- Install more sites in less time
- Serve more sites with the same equipment (shaded, mixed orientations, large & small, etc.)
- Provide the features your solar customers want and get more referrals

Lower operational expenses

- Single solution from commissioning through monitoring
- Simplify inventory management with a modular battery system
- Reduce truck rolls by remotely diagnosing issues

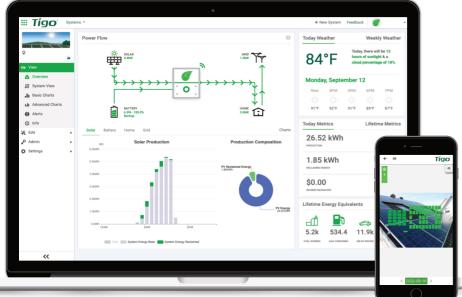


Unified by the Tigo Energy Intelligence (EI) platform

The most powerful solar commissioning and monitoring solution available







Reduce truck rolls and get peace of mind that your systems are performing the way you designed and installed it. Benefits of the Tigo Energy Intelligence platform include:

- Maximize site uptime Get real-time performance and safety alerts so you can quickly return the site to normal operation. More uptime = more energy
- Minimize O&M costs Detect system, string, and module level issues to remotely pinpoint and diagnose issues before rolling a truck. Fewer truck rolls = more savings.
- Enhance the customer experience Gain fleet level visibility using a single monitoring platform. Happier customers = more referrals.
- Commission the complete system in <10 minutes with the Tigo EI App.



Download the Tigo EI App







EI Energy Storage Three Phase

Tigo EI (Energy Intelligence) is a complete energy storage system that easily expands to accommodate customer's ever changing needs. The Tigo EI Battery stacks 3kWh blocks, easily allowing up to 12kWh of total energy. The Tigo EI Link is the keystone of the EI System. It is the communications hub and points for all grid, inverter, PV and battery connections. When paired with Tigo TS4 Flex MLPE, module level monitoring, optimization, and fire safety features can all be achieved with Tigo communications already built in.

Features

- Powered by Tigo TS4 optimizers for maximizing flexibility with module design
- · Supporting 150% oversized PV power
- Providing back-up, time of use, and energy management
- Fast Charging and high discharge current from battery
- Responding time less than 2 s
- Remote Monitoring and over the air upgrade
- Working in full load under extreme cold condition
- Fast installation and commissioning
- Industry leading warranty







Storage ready hybrid



EI Inverter

Number of MPPT Trackers

DC Input

Number of strings (MPPT 1/MPPT 2)	1		2/1	
Max PV input power per MPPT (W)	5000	10500/6000	11000/7000	
Max PV input voltage (V)	3000	1000	11000,7000	
Startup voltage (V)		200		
MPPT operating voltage (V)		180 - 950		
	16		10/16	
Max input current per MPPT (A)	16		18/16	
Max short circuit input current per MPPT (A)	20	3	35/20	
AC input & output				
AC input & output Nominal AC output power (W)	6000	10000	15000	
Max AC output apparent power (VA)	6600	11000	15000	
Max AC output apparent (A)	9.7	16.1	24.1	
Max AC input power (W)	12000		.0000	
Max AC input current (A)	19.3		32	
Nominal AC voltage (V)		115/240+ 400/220+ 200		
		15/240; 400/230; 380	1/220	
Grid frequency (Hz)		50/60	ina	
Power factor		0.8 leading - 0.8 lagging		
THDi		<3%		
Detter dete				
Battery data		LiE-DO (LED)		
Battery Type		LiFePO ₄ (LFP)		
Battery voltage range (V)		180 - 800		
Max continuous charge/discharge (A)		30/30		
م المطلق الم				
Off-grid output (with battery)	6000	10000	15000	
Nominal output power (VA)		10000	15000	
Peak apparent power (VA)	9000, 60sec	15000, 60sec	16500, 60sec	
Max continuous current (A)	8.7	14.5	21.8	
THDv		<3%		
Switch over time		2 s		
Cartage Date				
System Data				
MPPT efficiency		>99%		
Max/Euro efficiency (%)		98.2 / 97.7		
Battery charge/discharge efficiency (%)		98.5 / 97.5		
Standby consumption (W)		<5		
Protection rating		IP65		
Operating temperature (°C)	-35° - 60° (derating >45°)			
Storage Temperature (°C)		-20° - 70°		
Max operating altitude (m)	<3000 m			
Humidity (%)	0 - 100% non-condensing			
Noise emission (dB)	<40		<45	
Cooling	Natural o	convection	Forced airflow	
Dimensions (WxHxD) (mm)		503 x 503 x 199mn	n	
Weight (kg)		34kg		
Communications	RS485. Ethe	ernet, WiFi, LCD interfa	ace, Tigo EI Ann	
		,, <u></u> 00 mem		
Standard				
Safety	IEC62109-1/-2 FM	1C EN61000-6-1/EN61	000-6-2/EN61000-6-7	
<u> </u>		1:2012/VDE-AR-N 410		
Certification				

TSI-6K3D

TSI-10K3D

2

TSI-15K3D

EI Link

PV	TSS-3PS	
Max PV input power (Vdc)	1000	
Number of MPPT trackers	2	
Number of strings (MPPT 1/MPPT 2)	2 / 1	
Max. Short circuit current (MPPT1/ MPPT2) (A)	30/20	

Battery

Battery voltage range (V)	180 - 480
Max. Charge/discharge current (A)	30

On Grid (Inverter)

Rated voltage (Vac), Frequency (Hz)	380/400/415, 50/60
Max. Grid (Inv) input/output current (A)	24.1 / 24.1

Off-grid (Inverter)

Rated voltage (Vac), Frequency (Hz)	380/400/415, 50/60
Max. current (A)	24.1

Grid (Utility)

Rated voltage (Vac), Frequency (Hz)	380/400/415, 50/60
Max. input/output current (A)	63 / 24.1

Load

Rated voltage (Vac), Frequency (Hz)	380/400/415, 50/60
Max. input/output current (A)	63

Environmental limit

Degree of protection	IP54
protection class	Class I
Operating temperature (°C)	-35° to 60° (derating above 45°)
Storage temperature (°C)	-40° to 70°
Relative Humidity (%)	100%
Max Altitude (m)	3000
Overvoltage category	III(AC), II(DC)

Other Cooling concept

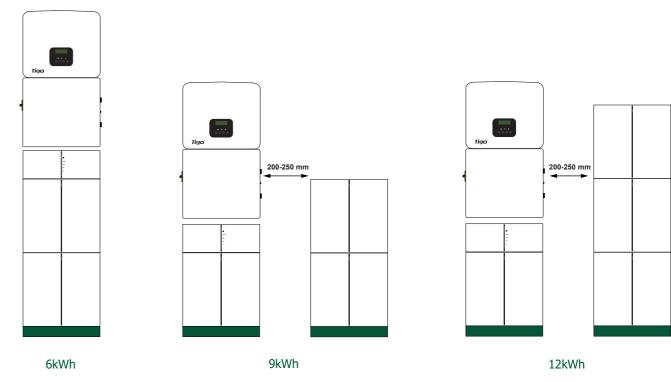
Dimensions and Weight	
Dimensions (WxHxD) (mm)	500 x 512 x 204.5mm
Net Weight (kg)	10

Nature convection

EI Battery

	TSB-6	TSB-9	TSB-12	
Nominal Voltage (V)	204.8	307.2	409.6	
Operating voltage range (V)	180-232	270-348	360-464	
Total Energy (kwh)	6.1	9.2	12.2	
Usable energy¹ (kwh)	5.5	8.3	10.9	
Normal power (kW)	5.1	7.6	10.2	
Max. Power (kW)	6.1	9.2	12.2	
Max. charge/discharge current (A)		30/30		
Battery roundtrip efficiency		95%		
Cycle life (90% DoD)		6000 cycles		
Available charge/discharge temperature range (°C)		-30 to 50		
Storage temperature (°C)		-20° to 50°		
Relative humidity (%)		0 - 100		
Max. Altitude (m)		3000 m		
Degree of protection		IP65		
Battery to inverter		RS485/CAN2.0		
Battery to battery/BMS		CAN 2.0		
Certificate		CE/IEC62169/UN38.2/IEC62040/UKCA		
Hazardous materials classification		Class 9		
Dimensions (WxHxD) (mm)		EI BMS: 482 x 173.5 x 153		
		TSB: 482.5 x 471.5 x 153		
Net Weight (kg)		EI BMS: 7.5		

Three Phase energy storage configurations:



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