

## Three Phase 8KW To 12KW Solar Inverter With Dual MPPT For Residential Energy Storage System

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: TINKO/OEM
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: TKSPI-H3
- Minimum Order Quantity: 20PCS
- Price: Negotiable
- Packaging Details: parer carton
- Supply Ability: 100pcs/day



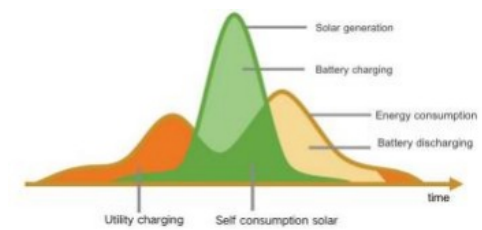
### Product Specification

- Dimensions: 620\*445\*130mm
- Delivery Port: Port Of Shenzhen
- Protection: IP20
- Warranty: 5 Years
- Noise: <60dB
- Installation Style: Indoor
- Highlight: 12kw solar inverter, 8kw solar inverter, 12kw 8kw pure sine wave inverter

## Product Description

### Product Description

TINKO SPI H3 series is a new type of solar energy storage inverter control inverter integrating solar energy storage & utility charging and energy storage, AC sine wave output. It adopts DSP control and features high response speed, reliability, and industrial standard through an advanced control algorithm.



### Product Features

Supports lead-acid battery and li-ion battery connections.

With a dual activation function when the li-ion battery is dormant; either mains or photovoltaic power supply access can trigger the activation of the li-ion battery.

Support three-phase pure sine wave output (350 ~415V).

Supports phase voltage adjustment in the range of 200, 208, 220, 230, 240Vac.

Supports two PV inputs, with the function of simultaneously tracking the maximum power charging or carrying capacity of two MPPT.

Dual MPPT, efficiency up to 99.9%, single maximum current of 22A, perfectly adapted to high- power modules.

4 charging modes are available: solar only, mains priority, solar priority, and mixed mains and PV charging.

With time-slot charging and discharging setting function, it helps users to take advantage of peak and valley tariffs and save electricity costs.

Energy-saving mode function to reduce no-load energy losses.

With two output modes of utility bypass and inverter output, with uninterrupted power supply function.

LCD large screen dynamic flow diagram design, easy to understand the system data and operation status.

360° protection with complete short-circuit protection, over-current protection, over-voltage protection, under-voltage protection, over-load protection, etc.

Support CAN, USB, and RS485 communication.

### Product Technical Parameters

MODEL	SPI-8K-H3	SPI-10K-H3	SPI-12K-H3	settable
INVERTER OUTPUT				
Rated Output Power	8,000W	10,000W	12000W	
Max. Peak Power	16,000W	20,000W	24000W	
Rated Output Voltage	230/400Vac (three-phase)			√
Capacity of Motor Load	5HP	6HP	6HP	
Rated Frequency	50/60Hz			√
Output Waveform	pure sine wave			
Switching Time	10ms( typical)			
Number of parallel	/			
Overload Protection	After triggering the overload protection, the inverter will resume output after 3 minutes, 5 consecutive overloads will shut down the output until the inverter is restarted. (102% <load <110%) ±10%: error, output shut down after 5 minutes. (110% <load <125%) ±10%: error, output shut down after 10s. ( >125% load ±10%): error, output shut down after 5s.			
BATTERY				
Battery Types	Li-ion / Lead-Acid / User Defined			√
Rated Battery Voltage	48Vdc			
Voltage Range	40-60Vdc			√
Max. Utility / Generator Charging Current	100A	120A	120A	√
Max. Hybrid Charging Current	180A	220A	260A	√
PV INPUT				
No. of MPPT	2			
Max. Input Power	6000W/6000W	7500W/7500W	9000W/9000W	
Max. Input Current	22/22A			

Max. Open-circuit Voltage	800Vdc/800Vdc			
MPPT Operating Voltage Range	200-650Vdc/200-650Vdc			
Utility / GENERATOR INPUT				
Input Voltage Range	phase voltage 170 ~280V, line voltage 305 ~485V			
Input Frequency Range	50 / 60Hz			
Bypass Overload phase Current	23A	29A	35A	
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	≥92%			
European Efficiency	97.2%	97.5%	97.5%	
GENERAL				
Dimensions	620*445*130mm( 2.03*1.46*0.43ft)			
Weight	27kg( 59.52lb)			
Protection Degree	IP20 , indoor only			
Ambient Temp	-10 ~55 , >45 derated			
Noise	<60dB			
Self-consumption	<130w			
Cooling Method	Fan cooling			
COMMUNICATION				
Internal Interface	RS485 / CAN / USB / Dry contact			√
External Module (optional)	Wi-Fi / GPRS			√
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
RoHS	Yes			

### Three-phase

