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All-in-one solar charge inverter

TY-LH4840K /TY-LH4850K



Performance characteristics

·Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.

·Two output modes: mains bypass and inverter output; uninterrupted power

-Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.

· Advanced MPPT technology with an efficiency of 99.9%.

·With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.

- \cdot ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss.
- · Intelligent variable speed fan to efficiently dissipate heat and extend system life. ·Lithium battery activation design, allowing access of lead-acid battery and

·360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.

·Supply of a variety of user-friendly communication modules, such as Rs485 (GPRS,WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internetmonitoring as well as remote operations.

Application scenarios



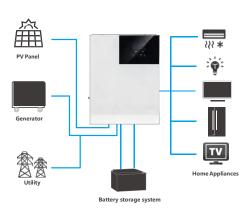




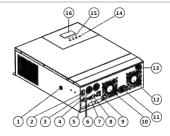




Product connection diagram



Product characteristics



1	Overload protector	9	Dry contact por
2	ON/OFF rocker switch	10	Cooling fan
3	AC input port	11)	Battery port
4	AC output port	12	Cooling fan
(5)	Grounding screw hold	13	PV port
6	RS485-2 communication port	14)	Touch button
7	USB communication port	15)	Indicator
8	RS485-1 communication port	16	LCD screen

Parameters

Weight (kg)

Models	TY-LH4840K	TY-LH4850K			
AC mode					
Rated input voltage	220/230Va	c			
Input voltage range	(170Vac~280Vac) ±2%/(90'	Vac-280Vac)±2%			
Frequency	50Hz/ 60Hz (Auto o				
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);				
Overload/short circuit protection	Circuit break				
Efficiency	>95%				
Conversion time (bypass and inverter)	10ms (typica	al)			
AC reverse protection	Available				
Maximum bypass overload current Inverter mode	40A				
Output voltage waveform	Pure sine wa	ve			
Rated output power (VA)	4000	5000			
Rated output power (W)	4000	5000			
Power factor	1				
Rated output voltage (Vac)	230Vac				
Output voltage error Output frequency range (Hz)	±5% 50Hz ± 0.3Hz/60Hz	z + 0 3Hz			
Maximum Efficiency	>92%				
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ±10%: report error and turn off the output after 10 seconds; Load ±150% ±10%: report error and turn off the output after 5 seconds;				
Peak power	8000VA	10000VA			
Loaded motor capability	3HP	4HP			
Output short circuit protection	Circuit break 40A	er			
Bypass breaker specifications Rated battery input voltage	40A 48V (Minimum starting	voltage 44V)			
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage rec overy settable on LCD screen)				
Power saving mode	Load ≤50W	•			
AC charging					
Battery type	Lead acid or lithium battery				
Maximum charge current	60A				
Charge current error	+ 5Adc				
=	± >AGC 40Vdc~58Vdc				
Charge voltage range	40vac~58vac Circuit breaker and blown fuse				
Short circuit protection	Circuit breaker and to				
Circuit breaker specifications	40A Alarm and turn off chargin	g after 1 minute			
Overcharge protection	Alamii anu tum on chargin	g s.c Illimate			
PV charging					
Maximum PV open circuit voltage	145Vdc				
PV operating voltage range	60-145Vdc				
MPPT voltage range	60-115Vdc				
Battery voltage range	40-60Vdc				
Maximum output power	4200W	4200W			
PV charging current range (can be set)	0-80A	0.804			
Charging short circuit protection	Blown fuse	U-6UA			
Wiring protection	Reverse polarity protection				
Certified specifications					
Certification	CE(EN62109-	-1)			
EMC certification leve	EN61000, C2				
Operating temperature range	-15°C to 55°C				
Storage temperature range	-25°C ~ 60°C				
Humidity range	-25°C ~ 60°C 5% to 95% (Conformal coating protection)				
Noise					
	≤60dB				
Heat dissipation	Forced air cooling, variable speed of fan				
Communication to to 1	1100 (00 100 100 100 100 100 100 100 100				
Communication interface Size (L*W*D)	USB/RS485(WiFi/GPRS)/Di 426*322*124r				

Stackable energy storage system

TY-CN5K-H1/TY-CN5K-H2/TY-CN5K-H3/TY-CN5K-H4/TY-CN5K-H5/TY-CN5K-H6



Performance characteristics

·Compatible with multi-brand storage inverters

- · Remote fault diagnosis
- · Support parallel expansion, up to 6 parallel
- · One-key automatic allocation of parallel ID, simple and convenient operation
- \cdot Long cycle life (6000 times@80%DOD/25°C/0.5C charge and discharge, 60%EOL)
- · Automated PACK production line, stable and reliable production quality
- \cdot $\;$ Floor stacking installation, saving installation time and cost.

Application scenarios









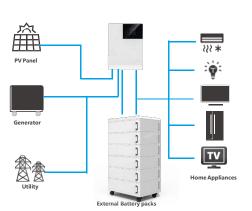


Island border

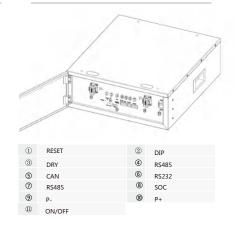
Power station

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Product connection diagram



Product characteristics



Parameters

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Model Number	TY-CN5K-H1	TY-CN5K-H2	TY-CN5K-H3	TY-CN5K-H4	TY-CN5K-H5	TY-CN5K-H6				
System Basic Parameters										
Number of battery packs	1	2	3	4	5	6				
Nominal system voltage	51.2V									
System nominal energy (100% DOD)	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh				
System available energy (90% DOD)	4.5kWh	9kWh	13.5kWh	18kWh	22.5kWh	27kWh				
Dimension (mm)	700*508*346	700*508*524	700*508*702	700*508*880	700*508*1057	700*508*1234				
Weight (KGS)	60	104	147	190	233	276				
Protection level	IP65									
Cooling method	Natural cooling									
		Batt	ery module parame	ters						
Nominal Voltage	51.2Vdc									
Nominal Capacity	100АН									
DOD	<90%									
Nominal Charging Current	100A									
Maximum continuous charging current	105A									
Rated Discharge Current	100A									
Maximum continuous discharge current	105A									
Working temperature	Discharge: -20°C~60°CCharge: 0°C~60°C									
Storage temperature	<25°C 12 months<35°C 6 months<45°C months									
environment humidity	<95%RH(No condensation)									
Altitude conditions	<2500m									
Cycle life	6000times@80%DOD/25°C/0.5Ccharge & discharge,60%EOL									