



Simple. Reliable. Efficient













X3-HYBRID-5.0T / X3-HYBRID-6.0T X3-HYBRID-8.0T / X3-HYBRID-10.0T

The new X-Hybrid 3-phase inverter from SolaX is the latest incarnation of the market leading range of hybrid inverters, offering a flexible and scalable solution for both domestic and commercial applications. The 3-phase series includes inverters ranging in size from 5 to 10kW, and with the ability to install multiple inverters in parallel, scalable battery storage for commercial applications is now a reality. The Inverter is equipped with EPS (Emergency Power Supply) function only when supported by extra changeover devices, had multiple communication options and can be controlled remotely.





X3-HYBRID (THREE PHASE)

	X3-HYBRID-5.0T	X3-HYBRID-6.OT	X3-HYBRID-8.OT	X3-HYBRID-10.0T
INPUT (DC)				
Max.PV array power [Wp]		9000	12000	15000
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	720	720	720	720
Max. input current (input A/input B) [A]	12/12	12/12	24/12	24/12
Max. short circuit current (input A/input B) [A]	14/14	14/14	28/14	28/14
MPPT voltage range[V]	180-950	180-950	180-950	180-950
Start operating voltage[V]	180	180	180	180
No. of MPP trackers		2	2	2
Strings per MPPT tracker	1/1	1/1	2/1	2/1
INPUT AC				
Max. apparent AC power[VA]		6000	8000	10000
Max. AC current[A]	8.0	9.6	12.8	15.9
Nominal grid voltage(AC voltage range)[V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Nominal grid Voltage(AC Voltage range)(V) Nominal grid Frequency/range(Hz)	50/60			
		50/60	50/60	50/60
OUTPUT AC	_			
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Nominal grid voltage(AC voltage range) [V]	_);380/220	
Nominal grid frequency/range [Hz]		50)/60	
Nominal AC current [A]		8.7	11.6	14.5
Max. AC current [A]	8.0	9.6	12.8	15.9
Displacement power factor		0.8 leading	0.8 lagging	
THDi, rated power [%]	_		<3	
OUTPUT DC (BATTERY)				
Battery voltage range [V]		160	1-800	
Max.continuous charge/discharge current [A]			25	
Communication interfaces		CAN	/RS485	
Reverse connect protection			'es	
OFF-GRID OUTPUT (WITH BATTERY)	_			
MAX. continuous apparent power [VA]	5000	6000	8000	10000
Rated voltage[V],Frequency [Hz]		400/230VAC;38	0/220VAC; 50/60	
MAX.continuous current [A]	7.2	8.7	11.6	14.5
Peak apparent power [VA] Duration[s]	<10000 60	<12000 60	<14000 60	<15000 60
Changeover time [s]		<	1.5	
THDv, linear Load [%]			<2	
EFFICIENCY	_			
	_		9.9	
MPPT efficiency [%]	_		7.0	
Euro efficiency [%]				
Max. efficiency [%]	97.0/96.0		075/065	07.5/06.5
Battery charge/discharge efficiency [%]	97.0796.0	97.0/96.0	97.5/96.5	97.5/96.5
POWER CONSUMPTION	_			
Standby consumption (Night) [W]	_	<25 for hot standby	v, <3 for cold standby	
STANDARD				
Safety		IEC62	109-1/-2	
EMC	EN61000-6-1/EN61000-6-3			
Certification	VDF 0126-1-1	L A1:2012 / VDE-AR-N 4105 / G		1-21 / and so on
ENVIRONMENT LIMIT		711.2012 / 722 / 11 / 11 / 1200 / 0.	50 / 110 1177 / 211000 15 / 021 0	227 0110 00 011
	_	ır	OC F	
Degree of protection(according to IEC60529)	_		P65	
Operating temperature range [°C]	-20 ~ +60 (derating at+45)			
Max. operation altitude [m]	<pre><2000 0~100 (condersing)</pre>			
Humidity [%]				
Storage temperature [°C]				
Typical noise emission [dB]	_	4	TO	
DIMENSION AND WEIGHT	_			
Dimensions(WxHxD) [mm]	_	457*6	54*228	
Weight[kg]			45	
Cooling concept		Na	tural	
Topology		Non-i	solated	
Communication interfaces	Ethernet/Meter/Pocket WiFi	(optional)/Pocket LAN(optional)	/Pocket GPRS(optional)/DRM/L	JSB/ISO alarm/CAN/BMS/NT
LCD display		Backlight 20	0*4 character	
Standard warranty [years]	5-10			

POWER

- Safest LiFePO₄ battery
- 90% DOD
- Cvcle life>6000 times
- IP65 protection level

- Floor or wall mounting
- Less self consumptior
- Quick installation
- No toxic heavy metals or caustic materials



T-BAT H 5.8 (Master)



T-BAT H 5.8 V2 (Master)



HV11550 HV11550 V2 (Slave)

TRIPLE

Global: +86 571-56260011

POWER | Email: info@triple-power.com

T-BAT SYS-HV Configuration List



	T-BAT H 5.8 T-BAT H 5.8 V2	T-BAT H 11.5 T-BAT H 11.5 V2	T-BAT H 17.3 T-BAT H 17.3 V2	T-BAT H 23 T-BAT H 23 V2	
NOMINAL CHARACTER					
Nominal Voltage [V]	115.2	230.4	345.6	460.8	
Operating Voltage [V]	100-131	200-262	300-393	400-524	
Battery Type	Li-ion (LFP)	Li-ion (LFP)	Li-ion (LFP)	Li-ion (LFP)	
Total Capacity [kWh]	5.8	11.5	17.3	23.0	
Usable Capacity ⁽¹⁾ [kWh]	5.1	10.4	15.5	20.7	
Faradic Charge Efficiency [%]	99	99	99	99	
Battery Roundtrip Efficiency [%]	95	95	95	95	
Standard Power [kW]	2.8	5.7	8.6	11.5	
Max Power [kW]	4.0	8.0	12.0	16.1	
Recommend Charge/Discharge Current [A]	25	25	25	25	
Max Charge/Discharge Current [A]	35	35	35	35	
Short Circuit Current[A]	760	760	760	760	
Cycle Life	>6000 Cycles	>6000 Cycles	>6000 Cycles	>6000 Cycles	
Warranty [Year]	10	10	10	10	
ENVIRONMENT REQUIREMENT					
Available Operating Temperature Range [°C]		0 tc	55		
Full-load Operating Temperature Range [°C]		5 to 48			
Relative Humidity [%]	4 to 100 (condensing)				
Altitude [m]	Below 2000				
Protection		IP65			
COMMUNICATION					
System to Inverter		CAN	12.0		
Battery to Battery/BMS		RS485			
Data Collection Port /FW UPDATE	CAN2.0				
Master Control Working Mode Indicator		1 LED			
Master Control Capacity Indicator		4LED (25%, 50%, 75%, 100%)			
Battery Module LED		2 LED			
Reset		Button			
Switch ON/OFF	Button×1 + breaker×1				
STANDARD					
Safety		CE, RCM, IEC62619, U	IL1973, ROHS, REACH		
UN Number	UN3480				
Hazardous Materials Classification		Class 9			
Transport Testing Requirement	UN38.3				
GENERAL					
Dimensions(LxWxH) [mm]	474×193×708	474×193×708+474×193×647	474×193×708+(474×193×647)×2	474×193×708+(474×193×647)×3	
Weight [kg]	72.2	72.2+68.5	72.2+68.5×2	72.2+68.5×3	

[1] Test conditions:90% DOD, 0.2C charger & discharger @+25°C

- * X3 Hybrid inverter can connect 2-4pcs of T58 batteries(1pc of T58 master, and rest 1-3pcs of T58 slave).
- * X1 Hybrid inverter can connect 1-3pcs of T58 batteries(1pc of T58 master, without T58 slave, or with 1-2pcs of T58 slave).
- * With BMS Parallel Box-II, the maximum battery quantity connected on each inverter varies, please kindly check datasheet of BMS Parallel Box-II.

 * Maximum Charge/Discharge Current may be variant with different inverter models

 * HV11550 V1 and HV11550 V2 share the same appearance.



HIPower Series

144-CELL HALF CUT MONOCRYSTALLINE **SOLAR MODULE**

450 Watt

STPXXXS - B72H/Vnh



Features



High power output

Compared to 158.75mm module, the power output can increase 25W-30W



Excellent weak light performance

More power output in weak light condition, such as haze, cloudy, and morning



Extended load tests

Module certified to withstand front side maximum static test load (5400 Pascal) and rear side maximum static test loads (3800 Pascal) *



Suntech current sorting process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline











Trust Suntech to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Long-term reliability tests
- 2 × 100% EL inspection ensuring defect-free modules

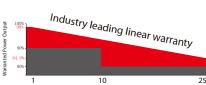




Special Cell Design

The unique cell design leads to reduced electrodes resistance and smaller current, thus enables higher fill factor. Meanwhile, it can reduce losses of mismatch and cell wear, and increase total reflection.

Industry-leading Warranty based on nominal power



- 98% in the first year, thereafter, for years two (2) through twenty-five (25), 0.55% maximum decrease from MODULE's nominal power output per year, ending with the 84.8% in the 25th year after the defined WARRANTY STARTING DATE.****
- 15-year product warranty
- 25-year linear performance warranty





IP68 Rated Junction Box

The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.



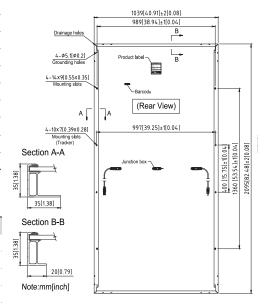
Electrical Characteristics

STC	STPXXXS-B72H/Vnh				
Maximum Power at STC (Pmax)	450 W	445 W	440 W	435 W	430 W
Optimum Operating Voltage (Vmp)	41.4 V	41.2 V	41.0 V	40.8 V	40.6 V
Optimum Operating Current (Imp)	10.87 A	10.81 A	10.74 A	10.67 A	10.60 A
Open Circuit Voltage (Voc)	49.2 V	49.0 V	48.8 V	48.6 V	48.4 V
Short Circuit Current (Isc)	11.61 A	11.54 A	11.47 A	11.40 A	11.32 A
Module Efficiency	20.7%	20.4%	20.2%	20.0%	19.8%
Operating Module Temperature		-4	0 °C to +85	°C	
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating			20 A		
Power Tolerance	0/+5 W				

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerance of Pmax is within +/- 5% and tolerances of Voc and Isc are within +/- 5%.

NMOT	STPXXXS-B72H/Vnh				
Maximum Power at NMOT (Pmax)	339.4 W	335.8 W	332.7 W	327.7 W	324.6 W
Optimum Operating Voltage (Vmp)	38.2 V	38.0 V	37.8 V	37.6 V	37.5 V
Optimum Operating Current (Imp)	8.89 A	8.84 A	8.78 A	8.73 A	8.67 A
Open Circuit Voltage (Voc)	46.2 V	46.0 V	45.8 V	45.5 V	45.4 V
Short Circuit Current (Isc)	9.37 A	9.31 A	9.25 A	9.20 A	9.13 A





Current-Voltage & Power-Voltage Curve (450S)

Votage (V)

800 W/m² 600 W/m² 400 W/m² 200 W/m

400 350 300

Power (W) 250

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 ℃
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Mechanical Characteristics

Packing Configuration

Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	144 (6 × 24)
Dimensions	2095 × 1039 × 35 mm (82.5 × 40.9 × 1.4 inches)
Weight	24.5 kgs (54.0 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm², Portrait: (-)350 mm and (+)160 mm in length Landscape: (-)1400 mm and (+)1400 mm in length or customized length
Connectors	Genuine MC4 EVO2, TL-Cable 01S
Fire Class Rating	C in accordance with UL 790

Current (A)



Dealer information

40′ HC Container 20' GP Pieces per pallet 31 31 5 Pallets per container 22 Pieces per container 155 682 Packaging box dimensions 2125×1130×1205 mm 812 kg Packaging box weight

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.