



Simple. Reliable. Efficient













X1-HYBRID-3.0T / X1-HYBRID-3.7T X1-HYBRID-4.6T / X1-HYBRID-5.0T

SolaX Power is delighted to announce the launch of the eagerly anticipated third generation of our market-leading solar battery storage product Hybrid inverter. The X-Hybrid battery storage inverter is compatible with the leading lithium-ion battery solutions available on the market today making it the most popular energy storage solution.



Version: E,C,I E:with EPS function C:without EPS function I:internal EPS function device



SOLAX X1-HYBRID HV (SINGLE PHASE) E:with EPS function C:without EPS function linternal EPS function device

Version: E,C,I

	X1-HYBRID-3.0T	Х1-1	HYBRID-3.71	Х	1-HYBRID	-4.6T	X1-HYBRI	ID-5.0T
INPUT (DC)	C Version E Version	Version	C Version	E Version	Version	C Version	E Version	Version
Max.PV array power [Wp]	4500			5550			7500	
Max.DC voltage [V]	600			600			600	
Nominal DC operating voltage [V]	360			360			360	
Max. input current (input A/input B) [A]	12/12			12/12			12/12	
Max. short circuit current (input A/input B) [A]	14/14			14/14			14/14	
MPPT voltage range[V]	125-550			125-550			125-550	
Start operating voltage[V]	150			150			150	
No. of MPP trackers	2			2			2	
Strings per MPPT tracker	1/1			1/1			1/1	
INPUT (AC)								
Max. apparent AC power[VA]	3000 3000	7000	3680	3680	7680	4999	4999	9999
Max. AC current[A]	14.4 14.4	36.1	16.0	16.0	37.7	21.7	21.7	47.7
Nominal grid voltage(AC voltage range)[V]	220/230/240(180)-270)	220/23	30/240(180	-270)	220/2	230/240(180	- 270)
Nominal grid Frequency/range[Hz]	50/60			50/60			50/60	
OUTPUT (AC)								
Nominal AC power [VA]	3000			3680			4999	
Max. apparent AC power [VA]	3300		4048	(3680 for 0	G98)	5500(4999 fo	r AS4777;4600	for VDE4105
Nominal grid voltage(AC voltage range) [V]	220/230/240(180)-270)		30/240(180		-	230/240(180	
Nominal grid frequency/range [Hz]	50/60	,		50/60	.,		50/60	- ,
Nominal AC current [A]	13			16			21.7	
Max. AC current [A]	14.3		17.6	6 (16 for G9	(8)	23.9 (20 for	VDE4105;21.7	7 for AS477
Displacement power factor				ding 0.8 la				
THDi, rated power [%]				<2	- 33 3			
OUTPUT DC (BATTERY)								
Battery voltage range [V]				0E 400				
Recommended battery voltage[V]								
Max.continuous charge/discharge current [A]				20				
Communication interfaces				ZAN/RS485				
Reverse connect protection								
OFF-GRID OUTPUT (WITH BATTERY)				103				
	4000			4000			F000	
MAX. continuous apparent power [VA]	4000			4000			5000	
Rated voltage[V],Frequency [Hz]	230, 50/60			230, 50/60			230, 50/60	
MAX.continuous current [A] Peak apparent power [VA] Duration [s]	21.7						26.0	
Changeover time [ms] THDv, linear Load [%]	<20 for 1 version / <500 for E version <2							
EFFICIENCY								
MPPT efficiency [%]	99.9							
Euro efficiency [%]	97.0							
Max. efficiency [%]	97.8							
Battery charge/discharge efficiency [%]			98.5 (PV-	BAT) 97.0 (BAT-AC)			
POWER CONSUMPTION								
Standby consumption (Night) [W]		<	:15 for hot star	ndby, <3 fo	r cold stanc	lby		
STANDARD								
Safety			IE	C62109-1/-	2			
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3							
Certification	VDE 0126-1-1 A1:2012	/ VDE-AR-N	4105 /G99 /d	G98 / AS47	77 / EN505	49/ CEI 0-21 /	'VDE 2510 /	and so on
ENVIRONMENT LIMIT								
Degree of protection(according to IEC60529)				IP65				
Operating temperature range [°C]	-20 ~ +60 (derating at+45)							
Max. operation altitude [m]								
Humidity [%]	0 ~ 100 (condensing)							
Storage temperature [°C]	-20 ~ +60							
Typical noise emission [dB]	40							
DIMENSION AND WEIGHT	_							
			47	76*464*180)			
Dimensions(WxHxD) [mm]	_		.,,	24				
Weight[kg]	_			Natural				
Cooling concept	Natural Non-isolated							
Topology Communication interfaces	Ethernet/Meter/Pocket	: WiFi(ontion:				RS(optional)/D	RM/USR/ISC) alarm/C7
Communication interfaces	- Zanamedinieterni oeket	1(0)					,, 555/150	
LCD display	Backlight 20*4 character							
Standard warranty [years]	5-10							

POWER

- Safest LiFePO₄ battery
- 90% DOD
- Cycle life > 6000 times
- IP55 protection level
- Floor or wall mounting
- Less self consumption
- Quick installation
- No toxic heavy metals or caustic materials



TRIPLE

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T-BAT SYS-HV Configuration List

T-BAT H 5.8

Nominal Voltage [V]	115.2	
Operating Voltage [V]	100-131	
Battery Type	Li-on (LFP)	
Nominal Capacity [kWh]	5.8	
Faradic Charge Efficiency [%]	99	
Battery Roundtrip Efficiency [%]	95	
Standard Power [kW]	2.9	
Max Power [kW]	4.0	
Recommend Charge/Cischarge Current [A]	25	
Max Charge/Discharge Current [A]	35	
Cycle Life [90% DOD]	>6000 Cycles	
Warranty [Year]	10	
Available Operating Temperature Range [C]	0 to 55	
Full-load Operating Temperature Range [°C]	5 to 48	
Humidity [%]	4 to 100 (condensing)	
Altitude [m]	Below 2000	
Protection	IP55	
System to Inverter	CAN2.0	
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	
Safety	CE, RCM, TUV(IEC62619) UL1973,ROHS,REACH	
UN Number	UN3840	
Hazardous Materials Classification	Class 9	
Transport Testing Requirement	UN38.3	
Dimensions(LxWxH) [mm]	474*193*708 (T-BAT H 5.8) / 474*193*647 (HV11550)	

^{*}The Triple Power battery could be scalable up to 4 modules, for a total of 23.2kWh.



HIPower Series

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

450 Watt

STPXXXS - B72H/Vnh



Features

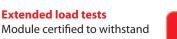


High power output

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



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



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

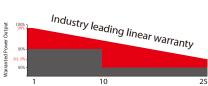
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international 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.



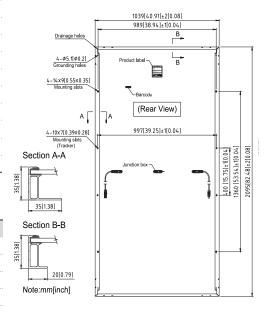
Electrical Characteristics

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	-40 °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



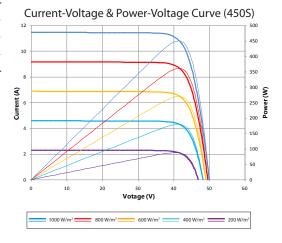


Temperature Characteristics

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

Mechanical Characteristics

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-Cable01S		
Fire Class Rating	C in accordance with UL 790		



Dealer information



Packing Configuration

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

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.