



■ ■ ■ SWITCH YOUR LIFE

VERSION: 2026 V1

* For the most up-to-date information, please refer to the latest version of this datasheet.

SINGLE-PHASE ON-GRID INVERTER

★ HIGH EFFICIENCY

Achieves up to 98% peak efficiency, maintaining performance even under partial loads. Maximizes solar energy conversion to boost power generation and revenue.

★ PRECISION MPPT

Advanced tracking technology ensures optimal power point alignment, adapting seamlessly to varying light and temperature for maximum energy harvest.

★ WIDE VOLTAGE/FREQUENCY RANGE

Built for Brazil's unstable grids, it operates reliably across broad voltage and frequency fluctuations, ensuring stability in diverse conditions.

COMPACT & EASY INSTALLATION

15-20% smaller and lighter than competitors. Portable design simplifies deployment in tight spaces (rooftops, industrial sites), cutting time and costs.

ROBUST WEATHER RESISTANCE

Engineered for Brazil's harsh climates—heat, humidity, UV. Features specialized cooling and protective coatings for long-term durability.



MODEL	S1X-3K1P-Y	S1X-4K1P-Y	S1X-5K1P-Y	S1X-6K1P-Y	S1X-7.5K1P-Y
Max. efficiency	98.40%	98.40%	98.40%	98%	98%
European efficiency	97.20%	97.20%	97.20%	97.50%	97.50%
MPPT efficiency	99.50%	99.50%	99.50%	99.50%	99.50%
INPUT (DC)					
Max. PV array power	4.5KW	6KW	7.5KW	9KW	11.25KW
Max. input voltage	600	600	600	600	600
MPPT Operating Voltage Range	40~560	40~560	40~560	40~560	40~560
rated input voltage	360V	360V	360V	360V	360V
Min. input voltage	50	50	50	50	50
Max. operating input current	20	20	20	20	20
Max. short circuit current	30	30	30	30	30
No. of independent MPPT inputs	2	2	2	2	2
Strings per MPPT input	1	1	1	1	1
OUTPUT(AC)					
Rated active power	3000w	4000w	5000w	6000w	7500w
Max. apparent power	3300w	4400w	5500w	6600w	8250w
AC nominal voltage	230Vac	230Vac	230Vac	230Vac	230Vac
AC voltage range	0.85Un~1.1Un				
AC grid frequency / range	50HZ(45~55)/ 60HZ(55~65)				
Max. output current	13.1/14.4	17.4/19.1	21.8/24	26.1/28.7	32.7/35.9
Adjustable power factor range	0.8 leading to 0.8 lagging				
Harmonic distortion (THD) at rated output	<3%	<3%	<3%	<3%	<3%
Feed-in phases	1	1	1	1	1
OTHER					
LED indicators (Status / Fault / Communication)	LED	LED	LED	LED	LED
Self-consumption (at night)	0.5W	0.5W	0.5W	0.5W	0.5W
Quality assurance	12years	12years	12years	12years	12years
Noise	< 20dB	< 20dB	< 20dB	< 35dB	< 35dB
Dimensions (W / H / D)	345*326*103				
Weight	10kg	10kg	10kg	< 11kg	< 11kg
Operating temperature range	-25~60℃	-25~60℃	-25~60℃	-25~60℃	-25~60℃
Max. permissible value for relative humidity (non-condensing)	0~100%	0~100%	0~100%	0~100%	0~100%
Max. operating altitude	3000m	3000m	3000m	3000m	3000m
Mounting type	Wall-mount bracket				
CONNECTION					
PV(DC connection)	Plug-in connector				
AC(AC connection)	Plug-in connector				
Communication interface	Standard Equipment: WIFI				
PROTECTION					
PV reverse connection protection/short protection	Y	Y	Y	Y	Y
PV overvoltage/overcurrent protection	Y	Y	Y	Y	Y
WIFI	Y	Y	Y	Y	Y
AFCI	Y	Y	Y	Y	Y
GFCI	Y	Y	Y	Y	Y
Surge Protection DC/AC	TYPE III/ TYPE III				
Islanding protection	Y	Y	Y	Y	Y
Grid overcurrent/overvoltage protection	Y	Y	Y	Y	Y
Temperature protection	Y	Y	Y	Y	Y
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	III[AC], II[DC]				
Safety level	Level I	Level I	Level I	Level I	Level I
Degree of protection	IP66	IP66	IP66	IP66	IP66