



■ ■ ■ SWITCH YOUR LIFE
ENERGY SOLUTIONS

SINGLE-PHASE GRID-TIED 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-5K1P-Y	S1X-7.5K1P-Y
Max. efficiency	98.40%	98%
European efficiency	97.20%	97.50%
MPPT efficiency	99.5%	99.5%
INPUT (DC)		
Max. PV array power	7.5KW	11.25KW
Max. input voltage	600V	600V
MPP voltage range	40~560V	40~560V
rated input voltage	360V	360V
Min. input voltage	50V	50V
Max. operating input current	20A	20A
Max. short circuit current	30A	30A
No. of independent MPPT inputs	2	2
Strings per MPPT input	1	1
Auxiliary voltage range	50~600V	50~600V
OUTPUT(AC)		
Rated active power	5000w	7500w
Rated apparent power	5000w	7500w
Max. apparent power	5000w	7500w
Rated MAX power	5500VA	8250VA
AC nominal voltage	220/230/240Vac	220/230/240Vac
AC voltage range	0.85Un~1.1Un (180~290)	0.85Un~1.1Un (180~290)
AC grid frequency / range	50HZ(45~55)/60HZ(55~65)	50HZ(45~55)/60HZ(55~65)
Max. output current	21.8/24A	32.7/35.9A
Adjustable power factor range	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Harmonic distortion (THD) at rated output	<3%	<3%
Feed-in phases	1	1
OTHER		
LED indicators (Status / Fault / Communication)	LED	LED
Self-consumption (at night)	0.5W	0.5W
Design Life	20 years	20 years
Quality assurance	12 years	12 years
Internal fan	N	N
External fan	N	Y
Noise	< 20dB	< 35dB
Dimensions (W / H / D)	346 x 327 x 103	346 x 327 x 103
Weight	10kg	11kg
Operating temperature range	-25~60℃	-25~60℃
Max. permissible value for relative humidity (non-condensing)	0~100%	0~100%
Max. operating altitude	3000m	3000m
Mounting type	Wall-mount bracket	Wall-mount bracket
DC switch	Y	Y
CONNECTION		
DC connection	Plug-in connector	Plug-in connector
AC connection	Plug-in connector	Plug-in connector
Communication interface	WIFI	WIFI
PROTECTION		
PV reverse connection protection/short protection	Y	Y
PV overvoltage/overcurrent protection	Y	Y
WIFI	Y	Y
AFCI	Y	Y
GFCI	Y	Y
Surge Protection DC/AC	TYPE III/TYPE III	TYPE III/TYPE III
Islanding protection	Y	Y
Grid overcurrent/overvoltage protection	Y	Y
Temperature protection	Y	Y
Protection class (according to IEC 62109-1)/ overvoltage category (according to IEC 62109-1)	III[AC],II[DC]	III[AC],II[DC]
Safety level	Level I	Level I
Degree of protection	IP66	IP66
Nighttime power	NA	NA
MARKETING		
Region	Brazil	Brazil
Grid standard	Inmetro	Inmetro
Safety standard	IE62109	IE62109
EMC standard	EN61000-6-1/-2/-3/-4	EN61000-6-1/-2/-3/-4