

MASS
ENERGY



SOFAR
SOLAR

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SOFAR
SOLAR

**YOUR BEST CHOICE FOR
AC STORAGE&HYBRID SOLUTIONS
AND
STRING INVERTERS**

Shenzhen SOFARSOLAR Co.,Ltd.



SOFARSOLAR is one of the subsidiaries of the SOFAR Group which is No.1 in the GPS industry. The SOFAR Group has been devoting itself to the communications and renewable energy fields since 2007 and decided to enter the PV industry in 2012, established SOFARSOLAR which specializes in R&D, production, sales and service of grid-tied inverters ranging from 1kW to 5kW for residential, 10kW to 70kW for commercial and other related renewable products.

SOFARSOLAR, with around 400 employees, is equipped with a very strong R&D team and the major R&D personnel have more than 10 years' experience in the PV industry. We have successfully improved many areas of technology in both software and hardware which had not been solved by other popular brands in the recent past. For example, detection accuracy of insulation resistance, grid resonance if multiple units are connected, remote monitoring-WiFi as standard communication, anti-corrosion protection, etc.

Now, SOFARSOLAR inverters have been installed in more than 20 countries (e.g. Australia, the UK, Germany, Italy, Belgium, Spain, Netherland, France, China etc.) with currently 9 own subsidiaries in Shenzhen, Wuxi, Beijing, Xinyang, Australia, India, Germany, UK and Italy.

Why choose SOFARSOLAR inverters? :

All SOFARSOLAR inverters are equipped with 25-year data storage capability (Internal SD Card)

All SOFARSOLAR inverters can be found in PV Sol system

All SOFARSOLAR inverters and distributors are insured by US CHUBB Insurance Corporation Company

All SOFARSOLAR inverters are equipped with Standard WiFi communication



● Single Phase Inverter

- >> 1100TL/1600TL/2200TL/2700TL/3000TL
- >> 3000TLM /3680TLM/4000TLM/4600TLM/5000TLM /6000TLM
- >> 3KTLM-G2/3.6KTLM-G2/4KTLM-G2/4.6KTLM-G2/5KTLM-G2/6KTLM-G2 *(New upgrade)*

● Three Phase Inverter

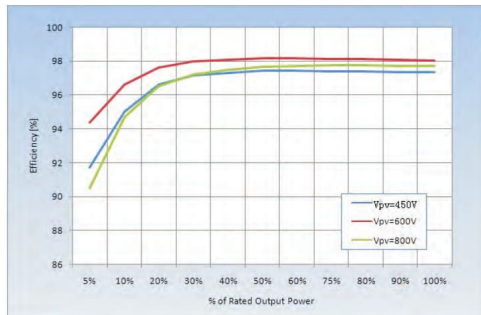
- >> 4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X
- >> 10000TL /15000TL/17000TL/20000TL
- >> 30000TL/33000TL/36000TL/40000TL

● Energy Storage System

- >> ME 3000SP
- >> ME 5000SP

MASS ENERGY INVERTER Three Phase Inverter

4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X



Efficiency Curve

High-yield

- Max 98.3% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 160V to 960V

All in one, flexible and economical system solution

- DC switch
- 4 inch screen, English display
- Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- High power density
- Rust-free aluminum covers
- Flexible monitoring solution
- Small size, Light weight

Intelligent grid management

- Reactive power adjustable
- Self power reducer when over frequency
- Remote active/reactive power limit control

Datasheet

SOFAR 4.4KTL-X

SOFAR 5.5KTL-X

SOFAR 6.6KTL-X

SOFAR 8.8KTL-X

SOFAR 11KTL-X

SOFAR 12KTL-X

Input(DC)

	4800W	6000W	7200W	9600W	12000W	14400W
Typical PV Power	4800W(440V-850V)	6000W(545V-850V)	7200W(660V-850V)	8800W(800V-850V)	8800W(800V-850V)	8800W(800V-850V)
Max DC power per MPPT	4800W(440V-850V)	6000W(545V-850V)	7200W(660V-850V)	8800W(800V-850V)	8800W(800V-850V)	8800W(800V-850V)
Number of independent MPPT	2					
Number of DC inputs	1 for each MPPT					
Max. input voltage	1000V					
Start-up input voltage	180V					
Rated input voltage	600V					
MPPT voltage range	160V-960V					
Full load DC voltage range	190V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Max. input current per MPPT	11A/11A					
Input short circuit current for each MPPT	14A					

Output(AC)

Rated power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max. AC power	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. output current	6.4A	8.0A	9.6A	12.8A	15.9A	19.1A
Nominal Grid Voltage	3/N/PE,220/380		3/N/PE,230/400	3/N/PE,240/415		
Grid Voltage Range	184V-276V(According to local standard)					
Nominal Frequency	50/60Hz					
Grid frequency range	50Hz, +/-5Hz(According to local standard)					
Active power adjustable range	0~100%					
THDi	<3%					
Power factor	1 (adjustable +/-0.8)					

Performance

Max. efficiency	98%	98.3%
Weighted eff. (EU/CEC)	97.5%	98%
Self-consumption at night	<1W	
Feed-in start power	45W	
MPPT efficiency	>99.5%	

Protection

DC reverse polarity protection	Yes
DC switch	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring

Certification

	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC62109-1/2 CE, CGC, AS4777, AS3100, VDE4105, C10-C11, G83/G59 (more available on request)
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SPD

	MOV : Type III standard
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Communication

Power management unit	According to certification and request
Standard Communication Mode	wifi (optional), GPRS(optional), SD card, RS485
Operation Data Storage	25 years

General data

Ambient temperature range	-25°C...+60°C
Topology	Transformerless
Degree of protection	IP65
Allowable relative humidity range	0...95% no condensing
Max. operating altitude	2000m
Noise	<29dB
Weight	21kg 22kg
Cooling	Natural
Dimension	483*452*200mm
Display	LCD display
Warranty	10 years