

MASS
ENERGY



SOFAR
SOLAR

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SOFAR
SOLAR

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

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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

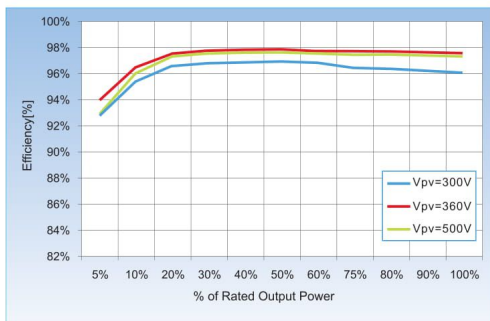
- >> 4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X
- >> 10000TL /15000TL/17000TL/20000TL
- >> 30000TL/33000TL/36000TL/40000TL

● Energy Storage System

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

MASS ENERGY INVERTER Single Phase Inverter

3KTLM-G2/3.6KTLM-G2/4KTLM-G2/4.6KTLM-G2/5KTLM-G2/6KTLM-G2
(New upgrade)



Efficiency Curve

High-yield

- Max 97.8% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range
- Independent dual MPPT tracking, Better to adapt to a variety of roof power plant design

All in one, flexible and economical system solution

- Real-time monitoring of mobile phone APP
- Easy installation and maintenance due to "Plug & Play" connection
- RS485 and External WiFi/GPRS(Optional)
- Built-in sound and light alarm function

Low maintenance cost

- Small size, Light weight
- Detachable cover for easy installation
- Rust-free Aluminum covers
- Flexible monitoring solution
- IP65 The installation location is free

Intelligent grid management

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

Datasheet

	SOFAR 3KTLM-G2	SOFAR 3.6KTLM-G2	SOFAR 4KTLM-G2	SOFAR 4.6KTLM-G2	SOFAR 5KTLM-G2	SOFAR 6KTLM-G2
Input(DC)						
Max. Input power	3500W	4000W	4400W	5000W	5500W	6600W
Max DC power for single MPPT	2000W(160V-520V)	2400W(180V-520V)	2600W(200V-520V)	3000W(250V-520V)		3500W(300V-520V)
Number of independent MPPT	2					
Number of DC inputs	1 for each MPPT					
Max. input voltage	600V					
Start-up input voltage	120V					
Rated input voltage	360V					
MPPT voltage range	90V-580V					
Full load DC voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V
Max. input current per MPPT	11A/11A					
Output(AC)						
Rated power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. output current	13.7A	16.8A	18.2A	21A	22.8A	27.3A
Nominal Grid Voltage	L/N/PE, 220, 230, 240					
Grid Voltage Range	180~276 V(According to local standard)					
Nominal Frequency	50/60Hz					
Grid frequency range	47~55 / 54~66Hz (According to local standard)					
Active power adjustable range	0~100%					
THDi	<3%					
Power factor	1 (adjustable +/-0.8)					
Power Limit export	Zero export or adjustable power limit export					
Performance						
Max. efficiency	97.6%			97.8%		
Weighted eff. (EU/CEC)	97.2%			97.3%		
Self-consumption at night	<1W					
Feed-in start power	50W					
MPPT efficiency	>99.5%					
Protection						
DC reverse polarity protection	Yes					
DC switch	optional					
Protection class /overvoltage category	I/III					
Input / output MOV (III)	Yes					
Safety protection	Anti islanding, RCMU, Ground fault monitoring					
Certification	NB/T32004-2013, AS4777, VDE0126-1-1, G83/2, G59/3, C10/11, RD1699/UTE15-712-1, EN50438, VDE-AR-N4105 IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC62109-1/2					
SPD	MOV : Type III standard					
Communication						
Power management unit	According to certification and request					
Standard Communication Mode	RS485 , WiFi/GPRS(optional) , SD card					
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	4000m					
Noise	<25dB					
Weight	11.5kg					
Cooling	Natural convection					
Dimension	405*315*135mm					
Display	LCD display					
Warranty	10 years					