

**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

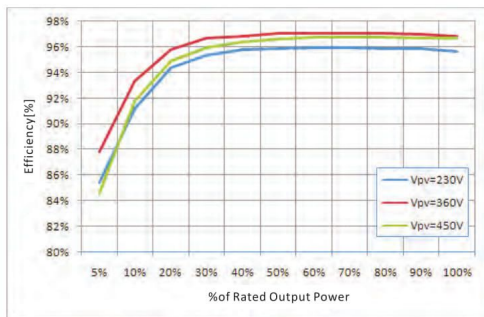
- >> 4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X
- >> 10000TL /15000TL/17000TL/20000TL
- >> 30000TL/33000TL/36000TL/40000TL

### ● Energy Storage System

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

# MASS ENERGY INVERTER Single Phase Inverter

» 1100TL/1600TL/2200TL/2700TL/3000TL



Efficiency Curve

### High-yield

- Max 97.2% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range

### All in one, flexible and economical system solution

- Free site selection due to IP65
- Easy installation and maintenance due to "Plug & Play" connection
- Interface selection – Wi-Fi / RS485 / GPRS
- 4" LCD display

### Low maintenance cost

- Detachable cover for easy installation
- Rust-free Aluminum covers
- Flexible monitoring solution
- Multi function relay can be configured to show various inverter information

### Intelligent grid management

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

## Datasheet

	SOFAR 1100TL	SOFAR 1600TL	SOFAR 2200TL	SOFAR 2700TL	SOFAR 3000TL
<b>Input(DC)</b>					
Max. Input Power	1100W	1600W	2200W	2700W	3000W
Number of MPPT/String per MPPT	1/1				
Max. input voltage	450V	500V			550V
Start-up input voltage	100V	120V			
Rated input voltage	360V		360V		
MPPT voltage range	80-450 V	100-500 V	100-550 V		
Full load DC voltage range	110-450 V	165-450 V	170-500 V	200-500 V	
Max. input current	10A	13A	13.5A	15A	
<b>Output(AC)</b>					
Rated Power	1000VA	1550VA	2100VA	2600VA	3000VA
Max.AC Power	1000VA	1550VA	2100VA	2600VA	3000VA
Max.AC Output Current	4.5A	7A	9.5A	11.5A	13A
Nominal Grid Voltage	230V				
Grid Voltage Range	180~270 V(According to local standard)				
Nominal Frequency	50/60Hz				
Grid frequency Range	47~53 / 57~63Hz (According to local standard)				
THDi	<3%				
Power factor	1 (adjustable +/-0.8)				
Grid connection	Single phase				
Power Limit export	Zero export or adjustable power limit export				
<b>Efficiency</b>					
Max. efficiency		97%		97.1%	97.2%
Euro efficiency	95.2%	95.9%	96.1%	96.4%	96.5%
MPPT adaptation efficiency	>99.5%				
<b>Standard</b>					
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
Safety standards	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1, 2, 14, 30), IEC 62109-1/2				
Grid standards	AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, EN50438, G83/2, C10/11, RD1699				
<b>Protection</b>					
Anti-Islanding Protection	Yes				
DC Reverse Polarity Protection	Yes				
Over Temp Protection	Yes				
Leakage Current Protection	Yes				
Over Voltage Protection	Yes				
Over Current Protection	Yes				
Earth Fault Protection	Yes				
SPD	MOV : Type III standard				
<b>Communication</b>					
Standard Communication Mode	wifi, RS485, GPRS (optional), SD card				
Operation Data Storage	25 years				
I/O	Yes				
<b>General Date</b>					
DC Switch	optional				
Ambient temperature range	-25°C...+60°C				
Topology	Transformerless				
Cooling	Natural				
Allowable relative humidity range	0...95% no condensing				
Max. operating altitude	2000m				
Noise	<25db@1m				
Degree of Protection(per IEC 60529)	IP65				
Dimension	405*314*135mm				
Weight	11kg				12kg
Self-consumption at night	<1w				
Display	LCD display				
Warranty	10 years				