

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

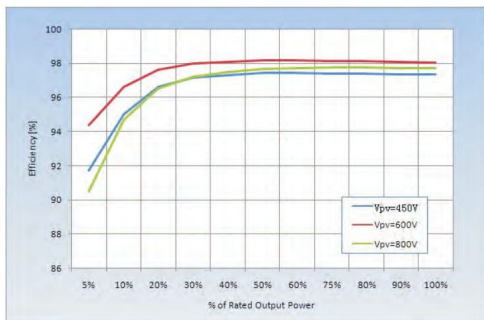
- >> 4.4KTL-X/5.5KTL-X/6.6KTL-X/8.8KTL-X/11KTL-X/12KTL-X
- >> 10000TL /15000TL/17000TL/20000TL
- >> 30000TL/33000TL/36000TL/40000TL

● Energy Storage System

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

MASS ENERGY INVERTER Three Phase Inverter

10000TL/15000TL/17000TL/20000TL



Efficiency Curve

High-yield

- Max 98.2% efficiency
- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

All in one, flexible and economical system solution

- DC switch
- DC surge protection device (option)
- AC surge protection device (option)
- Power management unit
- Optimum selection for big PV plants, commercial buildings...

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

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

Datasheet

SOFAR
10000TL

SOFAR
15000TL

SOFAR
17000TL

SOFAR
20000TL

Input(DC)

	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
Max.Input power	10400W	15600W	17700W	20800W
Max DC power for single MPPT	6750(450V-850V)	10500(500V-850V)	10500(500V-850V)	12000(500V-850V)
Number of independent MPPT	2			
Number of DC inputs	2 for each MPPT		2 for each MPPT	
Max. input voltage	1000V			
Start-up input voltage	350V			
Rated input voltage	600V			
MPPT voltage range	250V-960V			
Full load DC voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input current per MPPT	15A/15A	21A/21A	21A/21A	24A/24A
Input short circuit current for each MPPT	20A	27A	27A	30A

Output(AC)

	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
Rated power(@230V,50Hz)	10000VA	15000VA	17000VA	20000VA
Max. AC power	10000VA	15000VA	17000VA	20000VA
Max. output current	15A	22A	25A	29A
Nominal Grid Voltage	3/N/PE,220/380 or 3/N/PE,240/415 or 3/N/PE,230/400			
Grid Voltage Range	180V ~ 270V			
Nominal Frequency	50/60Hz			
Grid frequency range	47~53 / 57~63Hz (According to local standard)			
Active power adjustable range	0~100%			
THDi	<3%			
Power factor	1(Adjustable +/-0.8)			

Performance

	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
Max efficiency	98.2%			
Weighted eff. (EU/CEC)	97.6%/97.8%	97.9%/98%	97.9%/98%	98%/98.1%
Self-consumption at night	<1W			
Feed-in start power	45W			
MPPT efficiency	>99.5%			

Protection

DC reverse polarity protection	Yes
DC switch	Yes
Protection class /overvoltage category	I/III
Input/output SPD(II)	Optional
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1, 2, 14, 30), IEC 62109-1/2, CE, CGC, AS4777, AS3100, VDE 4105, C10-C11, G59 (more available on request)
SPD	MOV : Type III standard / Type II optional

Communication

Power management unit	According to certification and request
Standard Communication Mode	RS485, Wifi (optional), GPRS(optional), SD card, Multi-function relay
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	<45dB			
Weight	45kg	45kg	48kg	48kg
Cooling	Natural	Natural	Natural	Natural
Dimension	707*492*240mm			
Display	LCD display			
Warranty	10 years			