

We build Quality / We offer Quality


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


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SHENZHEN SOFARSOLAR CO., LTD.

SOFARSOLAR COMPANY PROFILE

SOFARSOLAR (est 2012) is one of the subsidiaries of SOFAR Group in China and specializes in R&D, production, sales and service of grid-tied inverters ranging from 1kW to 7.5kW (residential), 10kW to 70kW (commercial), hybrid inverters ranging from 3kW to 6kW and Amass store battery, etc. SOFARSOLAR is currently known to be one of the top 5 string inverter companies found throughout China. After breaking ground and gaining the reputation of being reliable, efficient, and professional, it has now become one of the famous companies in power storage inverters.

SOFARSOLAR, certified by ISO 9001 & ISO 14001, with around 600 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 60 countries (e.g. Brazil, India, Australia, the UK, Germany, Italy, Belgium, Spain, Netherland, France, Vietnam, South Africa, Pakistan, Japan, Korea, China etc.) with currently 9 own subsidiaries in Shenzhen, Wuxi, Dongguan, 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



SOFAR 3k~7.5kTL-G2

3000/3600/4000/4600/5000/6000/7500



Single-Phase Dual-MPPT

- Built-in zero export function
- IP65 ingress protection
- Max. efficiency up to 98.2%
- Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
- 2 MPPT high precision string detection
- I-V curve scanning function
- Built-in sound and light alarm function

| Datasheet | SOFAR 3KTLM-G2 | SOFAR 3.6KTLM-G2 | SOFAR 4KTLM-G2 | SOFAR 4.6KTLM-G2 | SOFAR 5KTLM-G2 | SOFAR 6KTLM-G2 | SOFAR 7.5KTLM | |
|---|---|------------------|----------------|------------------|----------------|----------------|----------------|---------------|
| Input (DC) | | | | | | | | |
| Recommended Max. PV input power | 3990W | 4790W | 5320W | 6120W | 6650W | 7980W | 9980W | |
| Max DC power for single MPPT | 2000W | 2400W | 2600W | 3000W | 3000W | 3500W | 2*2750W/ 2750W | |
| Number of MPPT trackers | | | | 2 | | | | |
| Number of DC inputs | | | | 1/1 | 2/1 | | | |
| Max. Input voltage | | | | 600V | | | | |
| Start-up voltage | | | | 120V | | | | |
| Rated input voltage | | | | 360V | | | | |
| MPPT operating voltage range | | | | 60-580V | | | | |
| Full power MPPT voltage range | 160V-520V | 180V-520V | 200V-520V | 230V-520V | 250V-520V | 300V-520V | 250V-520V | |
| Max. Input current per MPPT | | | | 11A/11A | 22A/11A | | | |
| Maximum DC input short circuit current per MPPT | | | | 14A | 28/14A | | | |
| Output (AC) | | | | | | | | |
| Rated power | 3000W | 3680W | 4000W | 4600W | 5000W | 6000W | 7500W | |
| Max. AC power | 3000VA | 3680VA | 4000VA | 4600VA | 5000VA | 6000VA | 7500VA | |
| Max. Output current | 13.7A | 16A | 18.2A | 21A | 22.8A | 27.3A | 32.6A | |
| Nominal grid voltage | L/N/PE, 220Vac, 230Vac, 240Vac | | | | | | | |
| Grid voltage range | 180Vac-276Vac (According to local standard) | | | | | | | |
| Nominal frequency | 50Hz/60Hz | | | | | | | |
| Grid frequency range | 45Hz-55Hz/54Hz-66Hz (According to local standard) | | | | | | | |
| Active power adjustable range | 0~100% | | | | | | | |
| THDi | <3% | | | | | | | |
| Power factor | 1 default (adjustable +/- 0.8) | | | | | | | |
| Power limit export | Zero export or adjustable power limit export | | | | | | | |
| Performance | | | | | | | | |
| Max efficiency | | | | 98.0% | | | | 98.2% |
| European weighted efficiency | | | | 97.5% | | | | 97.6% |
| Self-consumption at night | < 1W | | | | | | | |
| Feed-in start power | 50W | | | | | | | |
| MPPT efficiency | >99.9% | | | | | | | |
| Protection | | | | | | | | |
| DC reverse polarity protection | Yes | | | | | | | |
| DC switch | Optional | | | | | | | |
| Protection class/overvoltage category | I/III | | | | | | | |
| Input/output MOV (II) | Yes | | | | | | | |
| Safety protection | Anti islanding, RCMU, Ground fault monitoring | | | | | | | |
| SPD | MOV: Type III standard | | | | | | | |
| Communication | | | | | | | | |
| Power management unit | According to certification and request | | | | | | | |
| Standard communication mode | Rs485, Wifi/Ethernet/GPRS(optional), SD card(optional) | | | | | | | |
| Operation data storage | 25 years | | | | | | | |
| General Data | | | | | | | | |
| Ambient temperature range | | | | -25°C~+60°C | | | | -30°C~+60°C |
| Topology | Transformerless | | | | | | | |
| Degree of protection | IP65 | | | | | | | |
| Allowable relative humidity range | 0~100% | | | | | | | |
| Max. Operating altitude | 2000m | | | | | | | |
| Noise | <25dB | | | | | | | |
| Weight | | | | 11.5kg | | | | 18kg |
| Cooling | Natural convection | | | | | | | |
| Dimension | | | | 405*315*135mm | | | | 467*352*157mm |
| Display | LCD display | | | | | | | |
| Warranty | 5 years/ 7 years/ 10 years | | | | | | | |
| Standard | | | | | | | | |
| EMC | EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 | | | | | | | |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30) | | | | | | | |
| Grid standards | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50438/EN50549, G83/G59/G98/G99, NB/T32004; ABNT NBR 16149/16150 (for SOFAR3KTLM-G2, SOFAR5KTLM-G2& 7.5KTLM) | | | | | | | |