



» Grid-Connected Inverters





























UPS Catalog Telecom Power Supply Catalog Customized Product Catalog

SUNLEAF Series Single-Phase String Inverter



Features

Reactive power control available

Optional zero net export or partial export to grid

High performance more reliable

- > Higher precise MPPT
- > Rapid MPPT tracking technology
- > Special technology to prolong relay life 2~3 times
- > Transformerless design with higher operation efficiency
- > Excellent thermal performance
- > High overload capability under most ambient conditions

Easy installation and maintenance

- > compact and light weight
- $\,\succ\,$ Plug in and out monitoring module
- > Aluminium outer cover and humanization design

Full data display and communications

- > LCD full display system status
- > Bright LED indicators
- > PC software for remote monitoring and system trouble shooting
- > Integrated RS232 serial communications. RS485, WiFi optional

Cost advantages

- > Transformerless and fanless design cutting down cost
- $\,\succ\,$ Light weight and small dimension, to reduce shipping cost
- > Low maintenance expense
- > IP65 protection degree, suitable for outdoor installation, reducing construction cost
- > DC switch optional

Certificates

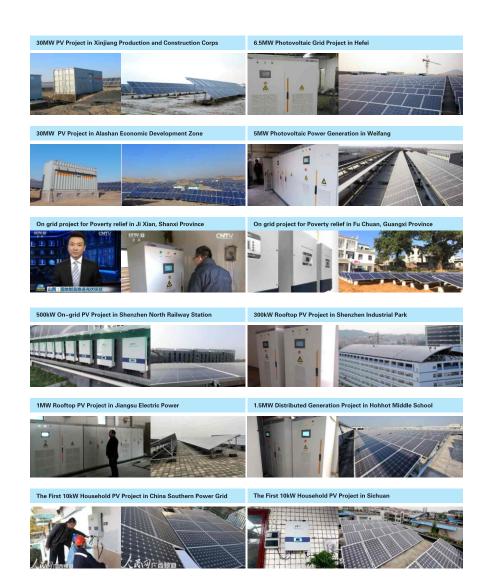
TUV, SAA, CE, CQC, AS/NZS 4777.2:2015, VDE 0126-1-1, EN62109-1/2, G83/2, G59/3, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

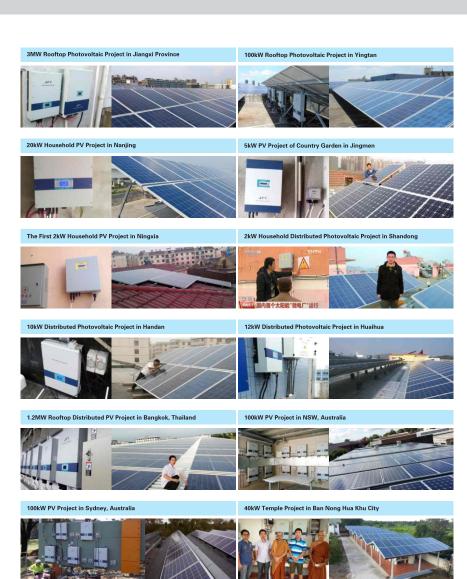
Technical data

| Model (SUNLEAF) | 1100TL | 1500TL | 2000TL | 2500TL | 3000TL | 3600TL | 4000TL | 5000TL | 6000TL |
|---------------------------------|---|-------------|--------|--------|---------|-------------|--------|--------|--------|
| Input (DC Side) | | | | | | | | | |
| Max. DC input power (W) | 1250 | 1600 | 2200 | 2700 | 3300 | 3960 | 4400 | 5500 | 6600 |
| Max. DC voltage (Vdc) | 450 | | | | 500 | | | | |
| Start voltage (Vdc) | 60 150 | | | | | | | | |
| MPPT operating range (Vdc) | 50~450 100~450 | | | | 100~500 | | | | |
| Number of parallel inputs | | | 1 | | 2 | | | | |
| Number of MPPT trackers | | | | | 1 | | | | |
| Max. input current (A) | 10 | | | 12 | 15 | 22 | | | |
| Output (AC Side) | | | | | | | | | |
| Nominal output power (W) | 1100 | 1500 | 2000 | 2500 | 3000 | 3600 | 4000 | 5000 | 6000 |
| Max. output power (W) | 1100 | 1500 | 2000 | 2500 | 3000 | 3600 | 4000 | 5000 | 6000 |
| Nominal output current (A) | 4.7 | 6.5 | 8.6 | 10.8 | 13 | 15.7 | 17.4 | 21.5 | 26 |
| Max. output current (A) | 5.3 | 7.9 | 10.5 | 12.5 | 15 | 17.3 | 20 | 25 | 27.5 |
| Nominal AC output voltage (Vac) | 230 | | | | | | | | |
| AC Output voltage range (Vac)* | 170~280 180~280 | | | | | | | | |
| AC Grid frequency range (Hz)* | 50/60±5 | | | | | | | | |
| Power factor (cosφ) | Default 1 lagging, adjustable 0.9 (leading)~0.9 (lagging) | | | | | | | | |
| THDI | <3% (at nominal output power) | | | | | | | | |
| System | | | | | | | | | |
| Max. efficiency | 96.5% | 96.5% | 97.0% | 97.0% | 97.2% | 97.3% | 97.6% | 97.6% | 97.6% |
| Euro. efficiency | 95.5% | 95.5% | 96.2% | 96.1% | 96.4% | 96.5% | 97.0% | 97.1% | 97.1% |
| MPPT efficiency | 99.8% | 99.8% | 99.8% | 99.8% | 99.6% | 99.6% | 99.6% | 99.6% | 99.6% |
| General Data | | | | | | | | | |
| Operating temperature (°C) | -25~+60 | | | | | | | | |
| Noise (typical) [dB (A)] | ≤25 | | | | | | | | |
| Consumption at night (W) | 0 | | | | | | | | |
| Electrical isolation | Transformerless | | | | | | | | |
| Cooling concept | Natural cooling | | | | | | | | |
| Degree of protection | IP65 | | | | | | | | |
| Communication | RS232 (RS485/WiFi/GPRS optional) | | | | | | | | |
| Dimension (W*D*H mm) | | 290*140*295 | | 350*1 | 50*340 | 364*164*390 | | | |
| Weight (kg) | 7.5 | | | 1 | 2 | 13.5 | 14 | 14.5 | 15.7 |

^{*}AC grid voltage range and frequency range depend on local standards.

References





Export to more than 50 Countries



30MW PV generation station in Inner Mongolia, China

Total system capacity 30MW utilizing a total of 29 sets of 1 MW inverter units

Each megawatt inverter unit contains two sets SUNFORST-500KT concentrated photovoltaic grid-connected inverters and housings with related intelligent ventilation systems, fire protection, lighting and power distribution systems.

The project is expected to generate 30 thousand kWH per hour in peak sunlight conditions The project generates in excess of 31 million kWH average annual, saves more than 12,000 tons of standard coal and reduces carbon dioxide emissions of nearly 45,000 tons.

The Datang company is a large enterprise group directly managed by the state.

This project cooperation with Datang ddemonstrates JFY's product performance, quality, capability and commitment to research and development.

30MW demonstration PV generation station in Luoyang, China

30MW total installed capacity requiring a total investment of 330 million yuan. The project is installed on the roof of 25 manufacturing buildings with a total area of over 350,000 square meters.

The project includes 26 PV power stations and is expected to be generating 30 thousand kWH per hour in peak sun conditions. The project generates more than 31 million kWH average annual and saves more than 12,000 tons of standard coal, reducing carbon dioxide emissions of nearly 45,000 tons.

15,000 units off-grid power in northwest area of China

In the remote northwest area there is an electricity shortage which presents a major inconvenience to the residents. 500VA off-grid power by JFY utilizes built in solar controllers and inverters to provide easy to use household sized units for each family to bring stable power to meet their lighting, heating and other basic household appliance needs.

150,000 units string inverter in global market

First home PV system in China

5.2MW PV generation system in Jiangxi, China
5MW PV generation system in Shandong, China
6.5MW PV generation system in Hefei, China
2.5MW PV generation station in Guangzhou, China
1.63MW PV generation station in Shandong, China
2.58MW PV grid-connected system in Beijing, China
Demonstration PV system in Jiangxi, China
Demonstration PV system on roof in Jiangxi, China
Distribution PV system in Hohhot, China

Some Hornors and Certifications

Patents

National Hi-tech Enterprise Honest And Trustworthy Enterprise China Top 10 PV Inverter Enterprise



Certificates







TV Reports







China central television reported

China central television reported

China gansun TV reported