» Grid-Connected Inverters

Products are subject to change with no further notice

- Grid-Connected Inverter Catalog
- Off-Grid Solutions Catalog
- 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
- 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
- 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*150*340		364*164*390			
Weight (kg)	7.5			12		13.5	14	14.5	15.7

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

References

30MW PV Project in Xinjiang Production and Construction Corps

6.5MW Photovoltaic Grid Project in Hefei

30MW PV Project in Alashan Economic Development Zone

5MW Photovoltaic Power Generation in Weifang

On grid project for Poverty relief in Ji Xian, Shanxi Province

On grid project for Poverty relief in Fu Chuan, Guangxi Province

500kW On-grid PV Project in Shenzhen North Railway Station

300kW Rooftop PV Project in Shenzhen Industrial Park

1MW Rooftop PV Project in Jiangsu Electric Power

1.5MW Distributed Generation Project in Hohhot Middle School

The First 10kW Household PV Project in China Southern Power Grid

The First 10kW Household PV Project in Sichuan

3MW Rooftop Photovoltaic Project in Jiangxi Province

100kW Rooftop Photovoltaic Project in Yingtan

20kW Household PV Project in Nanjing

5kW PV Project of Country Garden in Jingmen

The First 2kW Household PV Project in Ningxia

2kW Household Distributed Photovoltaic Project in Shandong

10kW Distributed Photovoltaic Project in Handan

12kW Distributed Photovoltaic Project in Huaihua

1.2MW Rooftop Distributed PV Project in Bangkok, Thailand

100kW PV Project in NSW, Australia

100kW PV Project in Sydney, Australia

40kW Temple Project in Ban Nong Hua Khu City

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

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Some Hornors and Certifications

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

Patents

Certificates

TV Reports

China central television reported

China central television reported

China gansun TV reported