

>>> Specification

Type	Solartec central 250	Solartec central 500
DC input		
Recommended photovoltaic array power	275 kWp	550 kWp
Max.DC voltage	DC800V (900 V adjustable)	DC 900 V
MPPT voltage range	DC 450-780V (450 - 820 V adjustable)	DC 450-820 V
Max.input current	500 A	1000 A
Max.number of strings	5	10
AC output		
Grid parameter	IT;3- 300V;50Hz	IT;3-300V;50Hz
Nominal AC output power	250kW	500 kW
Nominal AC output current	481A	962 A
THD of AC current (full-load)	<3%	<3%
Power factor	0.9 (lagging) - 0.9 (leading)	0.9 (lagging) - 0.9 (leading)
Efficiency		
Euro.efficiency	97.5%	97.9%
Max.efficiency	97.8%	98.3%
Max. output overcurrent protection	721.5A (60s)	1443A (60s)
Max. inverter backfeed current	0 A	0 A
Operating noise	<65dB	<65dB
Power consumption at night	<40W	<40W
Insulation monitoring value	30k Ω	30k Ω
Ambient temperature	-25℃ ~ +55℃	-25℃ ~ +55℃
Ambient humidity	5% - 95% (non-condensing)	5% - 95% (non-condensing)
Working altitude	2000m (operation with derating above 2000m)	2000m (operation with derating above 2000m)
Cooling	Fan	Fan
IP protection degree	IP20	IP20
Protective class	I	I
Overvoltage class	III	III
Insulating strength	50Hz, AC 2kV/1min	50Hz, AC 2kV/1min
Lightning protection level	Level C (II)	Level C (II)
Display/operation	LCD touch screen	LCD touch screen
Communication port	Standard: optical fiber Optional: RS485,RJ45	Standard: optical fiber Optional: RS485,RJ45
Dimensions		
(width * height * depth)	2000 × 2100 × 800 (mm)	2600 × 2100 × 800 (mm)
Weight	1000kg	1815 kg

>>> 安装案例



- Installation site : Inner Mongolia, China
- System size : 1.5MWp
- Inverter : 3 x Solartec Central 500
1X Solartec Central 250
2X Solartec Central 50



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KLNE has passed the test for low voltage ride-through function

Solartec Central 250/ 500

The photovoltaic grid-connected inverters in the Solartec Central 250/500 series are applicable to rooftop projects and power plant projects. The nominal output powers of Solartec Central 250 and Solartec Central 500 are 250kW and 500kW respectively.

This series has the Siemens core inverter module, an advanced MPPT algorithm and advanced circuit topology. They have a high conversion efficiency. They have a speedy and high-accuracy control chip, and have the functions of reactive power compensation, harmonic controlling, overcurrent protection, overvoltage protection, temperature protection, active and passive islanding detection and low voltage ride through. Additionally, they support optical fiber remote monitoring and have reached European certification standards, including Germany's.

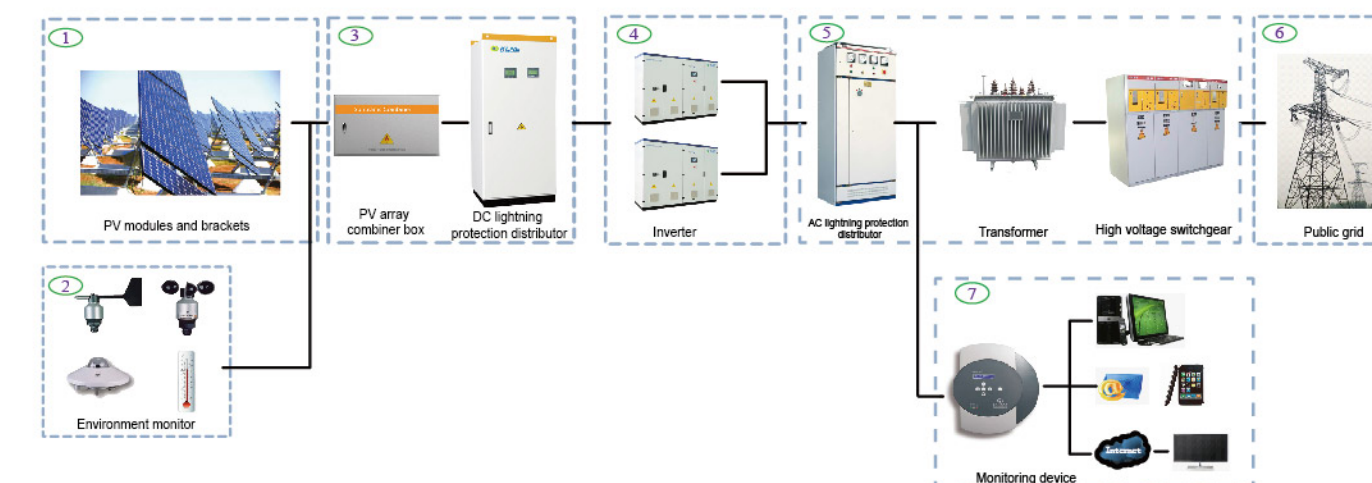
The Solartec Central series is applicable to 250kW-500MW PV power plant

KLNE can provide not only 250kW-100MW photovoltaic grid-connected project system solutions but also inverters or combined systems of inverter and high voltage equipment. This equipment includes PV modules, brackets, DC combiner box, DC distributor, inverter, AC combiner box, boost transformer, high voltage switchgear, monitoring devices, etc.

>>> Range of Application

250kW-500kW power plant 500kW-1MW power plant
1MW-500MW power plant Above 500MW power plant

Ex. 1MW PV system solution:



Solartec Central 250/ 500

The professional solutions of KLNE will decrease the cost of project and risk, simplify project construction and operation, improve system credibility, and provide long-term and speedy support.

>>> System Profile:

1. PV modules and brackets:

PV modules: Yingli, Suntech

Brackets: Schletter, HatiCon

2. Environment monitoring system:

Monitors temperature, humidity, wind speed, wind direction and sunlight.

3. DC side protection system:

PV array combiner box: Sunteams combiner16

DC lightning protection distributor: Sunteams DC distributor

4. Inverter:

KLNE inverter: 2 units of Solartec Central 500

5. AC distribution system:

AC lightning protection distributor: Sunteams AC Distributor

High voltage switchgear: Sunteams AC Switchgear

Transformer: KLNE's brand or others'

6. Grid-connected system:

connectable to 0.4kV/10kV/35kV/110kV/220kV/330kV grid

7. Monitoring system:

Monitoring devices: Solar log, Sun-Watch, Solarview, Solarcron, Skytron

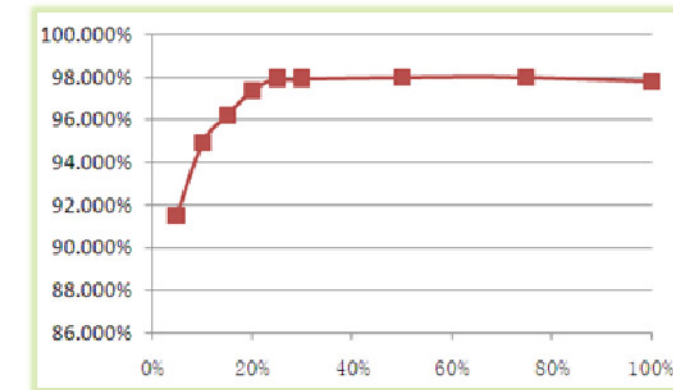
>>> Product Profile Solartec Central 250 / 500

- Max. DC voltage: 900V
- Nominal output power: 250kW/500kW
- Siemens core inverter module
- Advanced MPPT algorithm, tracking PV array maximum power point
- Active and passive islanding detection
- Low voltage ride through function
- PV array ground fault detection
- Auxiliary heating function
- Convenient and visualized touch screen display
- Supporting optical fiber remote monitoring
- Has passed TÜV, CE, ENEL and Golden Sun certifications



>>> High efficiency and low power loss

- Max efficiency of the inverters can reach 98.3% and euro-efficiency is up to 97.9%, meaning they get more power out of any solar installation.
- The advanced MPPT algorithm makes the tracking efficiency exceeds 99.9%. The wider MPPT voltage range (250V-800V) facilitates the PV module combination.



>>> Multi-communication interfaces, easy to monitor

- The remote monitoring can be realized through optical fiber. These inverters support RS485 and Ethernet communications. It makes power plant information available and manageable to customers anywhere at any time.



>>> Installation method



Two installation methods: crane lifting and forklift lifting which facilitate users in transportation and installation.

>>> Strong adaptability

- Multilingual display.
- Optical fiber remote monitoring.
- Easy installation and maintenance.
- Adaptive to high working altitude (2000m).
- Low voltage ride through.
- Auxiliary heating function.
- Reactive power adjustment and power factor de-rating functions.

>>> Excellent after-sales service

- If a device fails to function normally, there is a hotline ready to help you find the source of the malfunction. If the device is the cause of the malfunction we will replace it without delay. In addition, we also support our partners with regular training and our free PV plant design, which makes installation easy.

