



500KT / 630KT

Solar Leading offer central PV grid-tied inverter with power range from 50KW to 1000KW, efficiency up to 98.6%, even working under non-full load conditions, and offer a cost-effective guarantee for the PV power plants.

It has friendly interface, easy to use, modern appearance, wide DC input voltage features and high reliability performance.

Advanced performance

- With the advanced system intelligence, highly speed MPPT technology, industrial-grade engineering and compete fault protections, Sunforest series central commercial inverters maximize system uptime and power production, even in harshest environments
- DSP-controlled IGBT circuitry to achieve high efficiency, reliability and low installing cost
- KT series grid-tied inverters are integrated with an isolation transformer
- Multiple work mode, SVG (Static Var Generator) mode, Anti-Reverse Power control mode

Optimal MPPT technology

- Rapid and accurate control boost PV plant KWH yield
- Provides a wide range of operation voltage

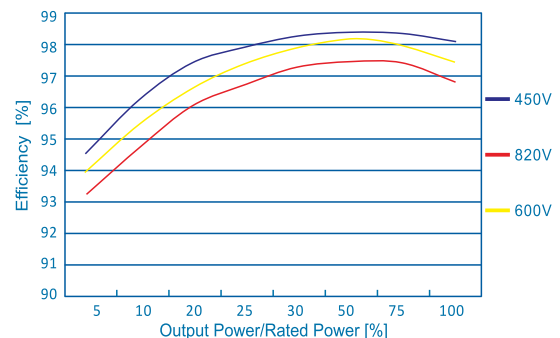
Safety

- Built-in DC and AC disconnected switches

Increased PV plant yield

- Rapid and accurate MPPT control increases PV plant KWH yield by extending the production window of arrays, enabling them to operate at optimal voltage and current levels for longer periods of time—even in varied sunlight conditions to maximize efficiency and enable you to get the most from your investment

500KT efficiency



Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-1

Technical data

| Model (SUNFOREST) | 500KT | 630KT |
|---------------------------|---------------------------------------|-----------------------------------|
| Input (DC side) | | |
| Max. DC Input Power | 570KW | 715KW |
| Max DC Voltage | 1000Vdc | |
| MPPT Operating Range | 450~820Vdc (start voltage 470Vac) | 500~820Vdc (start voltage 520Vac) |
| Number of Parallel Inputs | 12 | |
| Number of MPP Trackers | 1 | |
| Max. Input Current | 1200A | 1400A |
| Output (AC side) | | |
| Nominal Output Power | 500KW | 630KW |
| Max. Output Power | 550KW | 693KW |
| Nominal Output Current | 725A | 910A |
| Max. Output Current | 800A | 1000A |
| Nominal AC Output Voltage | 440Vac | 440Vac |
| AC Output Voltage Range* | 360~505Vac | 360~505Vac |
| AC Grid Frequency Range* | 60±3Hz | |
| Power Factor (cosφ) | 0.9 (leading)~0.9 (lagging) | |
| THDI | <3% (at nominal output power) | |
| Efficiency | | |
| Max Efficiency | 97.3% | 97.5% |
| Euro Efficiency | 96.6% | 97.0% |
| MPPT Efficiency | 99.9% | 99.9% |
| System | | |
| Operating Temperature | -25°C~+60°C(derated power above 50°C) | |
| Altitude | 6000m(derated power above 3000m) | |
| Noise (typical) | ≤65dB (A) | |
| Consumption at night | <100W | |
| Electrical Isolation | Transformer | Transformer |
| Cooling Concept | Fan Cooling | |
| Degree of Protection | IP20 | |
| Communication | RS485 | |
| Dimension (W*D*H mm) | 3100*900*1850 | 3100*900*1850 |
| Weight (kg) | 3200 | 3400 |