

SC500KTL

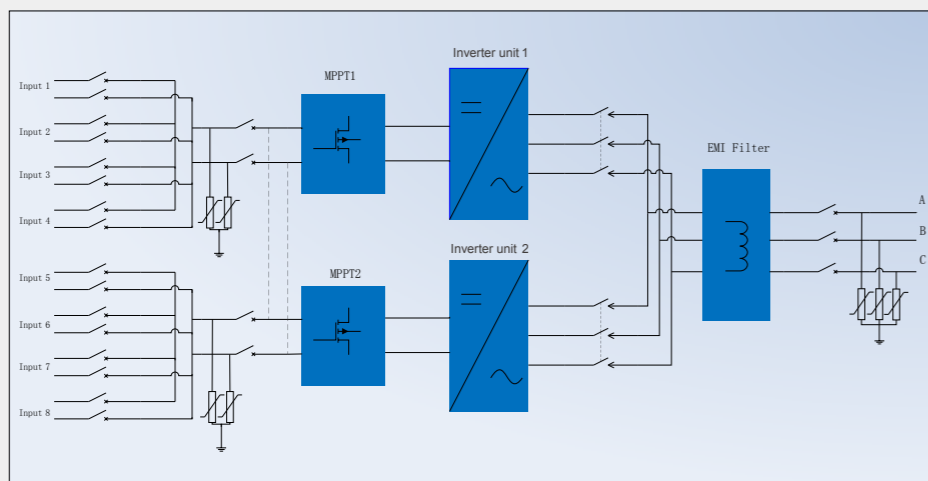


- **Reliable**
 - More Reliable electricity supply from both self-produced and DC side
 - High-end cooling technology from Germany
- **High Efficiency**
 - Innovative topology Max efficiency 98.7% European efficiency over 98.5%
 - 2 MPPT
 - Intelligent sleep and easy maintenance thanks to modular design for Boost and inverter circuit
 - Excellent over-load capacity ensure energy production under strong sunshine
- **Green and safe**
 - Multiple parallel connection intelligent restrains THDi overlay. THDi<2%
 - Night SVG function
 - Complete protection, adapting bad grid condition
- **Intelligent**
 - Remote monitor and on-line system management
 - Bus capacitor life smart detection and alarm
- **Easy-application**
 - Built-in DC breaker, integrate DC distribution while saving your cost
 - Easy maintenance and replaceable components
 - Double-winding Transformer and multiple-connection design reduce initial plant cost.

SC500KTL

Innovative magnetic device used to reach the highest power density(same power, less size) while installation becomes more easier. Integrated at most 8 DC breakers instead of DC distribution box, saving distribution box and DC cable cost. Modular inverter design achieves intelligent start&sleep and guarantee low-load efficiency. Outstanding heat sink design, front-door maintenance, installed against wall.

Diagram



Technical Data

| Model | SC500KTL |
|----------------------------------|---|
| Input(DC) | |
| Max input power | 610kW |
| Max input voltage | 1000Vdc |
| Rated voltage | 620Vdc |
| Starting voltage | 500Vdc |
| MPPT voltage range | 480~920Vdc |
| Full load MPPT voltage range | 500~850Vdc |
| No of MPPT | 1/2 (Optional) |
| Max input current | 1170A |
| Input string numbers | 2*4、2*2+2*2、2*8(Integrated DC breaker) |
| Output(AC) | |
| AC nominal power | 500kW |
| Max nominal apparent power | 600kW |
| Overload capacity | 120% |
| Max output current | 1100A |
| Nominal AC voltage | 315Vac |
| AC voltage range | 250~362Vac(adjustable) |
| AC grid frequency | 50Hz/60Hz |
| AC grid frequency range | 44~55/54~65Hz(adjustable) |
| Power factor | >0.99(at Rated power) |
| Power factor(adjustable) | 0.8leading...0.8 lagging |
| Hamonics(THD) | <2%(Nominal power) |
| DC current component | <0.5%(Nominal output current) |
| Efficiency | |
| Max efficiency | 98.7% |
| European efficiency | 98.5% |
| MPPT efficiency | 99.9% |
| Display and communication | |
| Display | 7" colorful LCD touch screen |
| RS485 | Modbus |
| USB | Yes |
| Wifi/PLC/GPRS | Optional |
| General data | |
| Dimension(W/H/D) | 1500*2000*650 |
| Weight(kg) | 1500 |
| Working temperature | -30~+55°C |
| Cooling | Intelligent heat sink |
| Exhaust demand | 4800m ³ /h |
| Ingress protection | IP20 |
| Humidity | 0~95% , Non-condensing |
| Noise | ≤ 60dB |
| Altitude | 6000m(<3000m no degrading) |
| Night consumption | <50W |
| No-load loss | <1000W |