

JALpower Solar Grid-connected Inverter

JSI-G500K3



General Descriptions:

JSI-500K3 is using low-frequency isolation transformer for protective purpose. Its wider input voltage range ensures more combinations of the PV arrays. Moreover, optical fiber isolation technology has been adopted to increase its anti-interference ability under the circumstances of multiple inverters installation. In addition, optimized circuit and structural design has improved system thermal efficiency which enhancing system reliability and stability. Reinforced protection functions, including the DC ground fault protection, make it the best product for large scale PV power plant.

Technical Features:

- With low-frequency transformer isolation
- Wide DC input voltage range
- Advanced IGBT module boosts reliability and stability
- High conversion efficiency up to 97.1% (with transformer)
- Complete protection features ensures greater reliability of the system
- Easy installation and use
- MPPT self-optimizing technology maximizes the system power generating capacity
- Accurate output power measurement
- Multi-lingual LCD display & multiple communication interfaces
- Designed to suit for the harsh grid environment
- DK5940

Communications:

- RS485/Ethernet/GPRS interfaces
- Computer monitoring software

Safety:

- Full protection functions: over-voltage protection, short-circuit protection, islanding protection, over-heat protection
- Over-load protection
- DC ground-fault protection
- Standards complied: EN61000-6-2, EN61000-6-4, EN50178, RD1663/ 2000, DK5940

Technical Specifications

MODEL	JSI-G500K3
DC DATA	
Max. DC Voltage	880Vdc
MPP Voltage Range	450~820Vdc
Max. DC Power	550kWp
Max. Input Current	1200A
Max. Number of Strings	16
AC DATA	
Output Power	500kW
Nominal Grid Voltage	400Vac
Nominal Grid Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	0.99 (at nominal power)
SYSTEM	
Max. Efficiency	96.70%
Euro Efficiency	95.60%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40
Cooling Method	Controlled forced-air cooling
Comm. Interfaces Optional Display Relative Humidity	0~95%, non-condensing RS485 Ethernet/GPRS touch screen LCD
MECHANICAL DATA	
W H D	2800 2180 850
Weight	3300kg+1800 2180 1200 (mm)