

# JALpower solar Grid-connected inverter

## JSI-G50K3



### General Descriptions:

JSI-G50K3 is using low-frequency isolation transformer for protection purpose for outdoor applications. It is the ideal product used for string-connected medium PV power station to simply PV power plant design.

### Technical Features:

- Using the fifth generation of Mitsubishi IPM module increases system efficiency dramatically
- MPPT self-optimizing technology maximizes the system power generating capacity
- Multi-lingual LCD display feature enables free-setting functions
- Multiple communication interfaces provide easy and convenient workstation online monitoring features
- Complete protection features ensures greater reliability of the system
- Wide DC input voltage range
- User-friendly interface enables setting various operating parameters by pressing a button
- Multiple inverters can be connected in parallel to simplify PV power plant design
- CE & DK5940 Certification

### 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

·Standards complied: EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-2, EN61000-3-3, EN60164-1-1, EN55022, EN50178

## Technical Specifications

|                        |                         |
|------------------------|-------------------------|
| <b>MODEL</b>           | JSI-G50K3               |
| <b>DC Input</b>        |                         |
| Max. DC Voltage        | 880Vdc                  |
| MTTP Range             | 450~820Vdc              |
| Max. DC Power          | 55kWp                   |
| Max. Input Current     | 130A                    |
| Max. Number of Strings | 2                       |
| <b>AC Output</b>       |                         |
| Output Power           | 50kW                    |
| Operating Voltage      | 310~450Vac              |
| Operating Frequency    | 50Hz/60Hz               |
| Current THD            | < 3%(at nominal power)  |
| Power Factor           | ~1(at nominal power)    |
| <b>System</b>          |                         |
| Max. Efficiency        | 95%                     |
| Euro Efficiency        | 94%                     |
| Protection Degree      | IP20 (indoor)           |
| Operating Temp.        | -20~+40°C               |
| Ventilation Method     | fan cooling             |
| Humidity               | 0~95%, non-condensing   |
| Acoustic Noise Level   | <60dBA                  |
| Comm. Interfaces       | standard: RS485         |
|                        | optional: Ethernet/GPRS |
| Display                | LCD                     |
| <b>Mechanical Data</b> |                         |
| W   H   D              | 820 1964 646 (mm)       |
| Weight                 | 700kg                   |