



## GSC-SP5K

- Pure Sine Wave Solar Inverter
- Support WiFi Monitoring
- Built-In 120A MPPT
- Support BMS Communication
- Compatible to Generator
- Selectable Charging Current Based On Applications
- Frequency 50/60 Hz Setting Optional
- Support AC/PV/Battery Priority Mode
- Split Phase Dual Voltage Output

# PARAMETER TABLE

| MODEL                                   | GSC-SP5K                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC INPUT                                |                                                                                                                                                                                                                                                                                                                                             |
| Voltage                                 | 220VAC                                                                                                                                                                                                                                                                                                                                      |
| Selectable Voltage Range                | 154-264VAC±3V (Standard Mode) 185-264VAC±3V (UPS Mode)                                                                                                                                                                                                                                                                                      |
| Frequency Range                         | 50/60Hz ± 5%                                                                                                                                                                                                                                                                                                                                |
| INVERTER OUTPUT                         |                                                                                                                                                                                                                                                                                                                                             |
| Rated Power                             | 5000VA / 4000W                                                                                                                                                                                                                                                                                                                              |
| Surge Power                             | 12000W                                                                                                                                                                                                                                                                                                                                      |
| Output Voltage                          | 220VDC and 110VAC ± 10%                                                                                                                                                                                                                                                                                                                     |
| Load Peak Ratio                         | (MAX) 3:1                                                                                                                                                                                                                                                                                                                                   |
| Output Frequency                        | 50/60Hz ± 1%                                                                                                                                                                                                                                                                                                                                |
| Output Wave                             | Pure Sine Wave                                                                                                                                                                                                                                                                                                                              |
| BATTERY                                 |                                                                                                                                                                                                                                                                                                                                             |
| Battery Type                            | External lead-acid battery, gel battery, water battery or lithium battery                                                                                                                                                                                                                                                                   |
| Battery Voltage                         | 24VDC                                                                                                                                                                                                                                                                                                                                       |
| Folating Charging Voltage               | 27.4VDC                                                                                                                                                                                                                                                                                                                                     |
| Low Battery Cut Off Protection Voltage  | 21VDC                                                                                                                                                                                                                                                                                                                                       |
| SOLAR CHARGER                           |                                                                                                                                                                                                                                                                                                                                             |
| Maximum PV Array Power                  | 3200W                                                                                                                                                                                                                                                                                                                                       |
| Solar Input Voltage Range               | MPPT 30-150VDC                                                                                                                                                                                                                                                                                                                              |
| Maximum PV Display Open Circuit Voltage | 150VDC                                                                                                                                                                                                                                                                                                                                      |
| Maximum Solar Charging Current          | 120A                                                                                                                                                                                                                                                                                                                                        |
| CHARGER                                 |                                                                                                                                                                                                                                                                                                                                             |
| Max AC Charge Current                   | 83A (default 66A)                                                                                                                                                                                                                                                                                                                           |
| Output Voltage                          | Depends on battery type                                                                                                                                                                                                                                                                                                                     |
| OTHERS                                  |                                                                                                                                                                                                                                                                                                                                             |
| Transfer Time                           | ≤10ms (UPS Mode) / ≤20ms (INV Mode)                                                                                                                                                                                                                                                                                                         |
| Protective Function                     | Under the utility: input overcurrent with fuse protective function;<br>Under inversion: overload protection, short circuit protection, low voltage protection, battery anti-reverse connection protection.                                                                                                                                  |
| Status Display                          | Parameters can be viewed such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the screen pages;<br>LED displays mains power, charging status, inversion status, and fault status.                                                      |
| Voice Prompt                            | Low battery protection: buzzer beeps for long time;<br>Low battery: buzzer beeps every second;<br>Machine fault/ Overload: buzzer beeps;<br>When the overload is less than 130%, the buzzer will sound every second,and the output will be turned off after 30s.<br>When the overload over 150%, the output will be turned off after 300ms. |
| Operating Temperature                   | -10°C~50°C                                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature                     | -15°C~45°C                                                                                                                                                                                                                                                                                                                                  |
| Relative Temperature                    | -10°C~90°C non condensation                                                                                                                                                                                                                                                                                                                 |
| Noise                                   | <45db                                                                                                                                                                                                                                                                                                                                       |
| Display                                 | LED + LCD Display                                                                                                                                                                                                                                                                                                                           |

