

SP6000 ~ 10000 IP Grid HV

## SP IP Grid HV Series

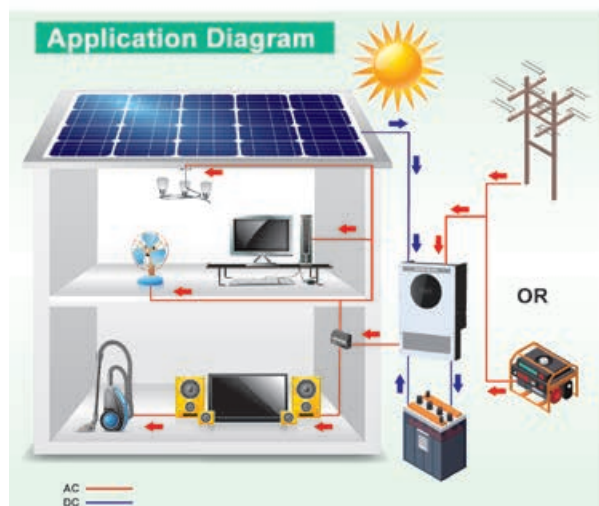
IP66 waterproof and dustproof design.

Hybrid inverter with Grid-tie function for outdoor installations.



### Features

- Grid-Tie function with backup
- IP66 design
- Dual inputs selected as either programmable Main Grid or generator
- Dual outputs connected and switched automatically
- Built-in alternative port for generator and emergent load
- Built-in BMS & Wi-Fi for mobile monitoring (APP)
- User-adjustable charging current and voltage
- Parallel operation up to 9 units



### Specifications

| MODEL  | SP6000 IP Grid HV   | SP10000 IP Grid HV |
|--|---|--------------------|
| <b>RATED POWER</b>                           | 6600VA/6600W  | 10600VA/10600W     |
| Maximum Charging Current                     | 6600W   | 10600W             |
| <b>PV INPUT (DC)</b>                         |   |                    |
| Maximum DC Power                             | 12000 W   | 18000 W            |
| Nominal DC Voltage                           | 320 VDC   |                    |
| Maximum DC Voltage                           | 500 VDC   |                    |
| Start-up Voltage / Initial Feeding Voltage   | 125 VDC / 160 VDC   |                    |
| MPP Voltage Range                            | 120 VDC ~ 450 VDC   |                    |
| Maximum Input Current                        | 2*21 A  | 2*27 A             |
| Isc PV (absolute maximum)                    | 26.25 A   | 32.25A             |
| Max. inverter back feed current to the array | 0 A   |                    |
| <b>GRID OUTPUT (AC)</b>                      |   |                    |
| Nominal Output Voltage                       | 220 / 230 / 240 VAC   |                    |
| Output Voltage Range                         | 184 - 264.5 VAC   |                    |
| Output Frequency Range                       | 47.5 ~ 51.5 Hz  |                    |
| Nominal Output Current                       | 28.7 A  | 46.1A              |
| Surge Rating                                 | 170% Load for 10 sec.   |                    |
| THDI   | ≤ 10%   |                    |
| <b>AC INPUT</b>                              |   |                    |
| AC Start-up Voltage                          | 60 VAC  |                    |
| Auto Restart Voltage                         | 180 VAC   |                    |
| Acceptable Input Voltage Range               | 90 - 280 VAC or 170 - 280 VAC   |                    |
| Nominal Frequency                            | 50 Hz / 60 Hz   |                    |
| Maximum AC Input Current                     | 40 A  | 60A                |
| Inrush Input Current                         | 40 A / 1ms  | 60A / 1ms          |
| Maximum Conversion Efficiency DC to AC       | 97%   |                    |
| <b>BATTERY MODE OUTPUT (AC)</b>              |   |                    |
| Nominal Output Voltage                       | 220 / 230 / 240 VAC   |                    |
| Output Frequency                             | 50 Hz / 60 Hz (auto sensing)  |                    |
| Output Waveform                              | Pure sine wave  |                    |
| Maximum discharging current                  | 135A  | 210A               |
| Harmonic Distortion                          | ≤ 3% THD (Linear Load); ≤ 5% THD (Non-linear Load)                                  |                    |
| Efficiency (DC to AC)                        | 93%   |                    |
| <b>BATTERY &amp; CHARGER</b>                 |   |                    |
| Nominal DC Voltage                           | 48 VDC  |                    |
| DC Voltage Range                             | 40 - 60 VDC   |                    |
| Maximum Battery Discharging Current          | 135 A   | 210A               |
| Maximum Charging Current                     | 135 A   | 210A               |
| <b>PHYSICAL</b>                              |   |                    |
| Dimension, D × W × H (mm)                    | 633 × 418 × 192   |                    |
| Net Weight (kgs)                             | 23.5  | 29                 |
| <b>INTERFACE</b>                             |   |                    |
| Communication Port                           | RS-232 / USB / BMS / Wi-Fi  |                    |
| Optional                                     | SNMP & Modbus   |                    |
| <b>PROTECTION &amp; STANDARD</b>             |   |                    |
| Safety / EMC                                 | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-2/4, IEC 61683, IEC 62116, IEC 61727 |                    |
| <b>ENVIRONMENT</b>                           |   |                    |
| Ingress Protection Rating                    | IP66  |                    |
| Humidity                                     | 0 ~ 95% RH (No condensing)  |                    |
| Operating Temperature                        | -10 to 50°C   |                    |
| Altitude                                     | 0 ~ 2000 m*   |                    |

\* Power derating 1% every 100m when altitude is higher than 1000m. Specifications are subject to change without notice.

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