# SOLAR INVERTER 5000 SVN ON-GRID

- **On-grid solar inverter** compliant with German standards (VDE).

- Maximal PV peak power of 10kW with MPPT charger type technology

- Pure Sine Wave Output

- **1 Phase, or 3 Phase setup** (only in parallel). Up to 6 Units can be used in parallel.

- **Strong and configurable AC/ PV Charger**

- Works perfectly with our ESS – **LiFe Battery System**

- Manage your solar inverter with the smartphone app: SolarPower

The PowerWalker Solar Inverter SVN series is a multifunctional on-grid inverter, combining features of inverter, solar charger and battery management to offer uninterruptable power supply. Its advanced touch LCD offers user-configurable and easy-accessible operation such as battery charging current and AC/ PV charger priority. This series complies with German VDE standards, tested and certified.
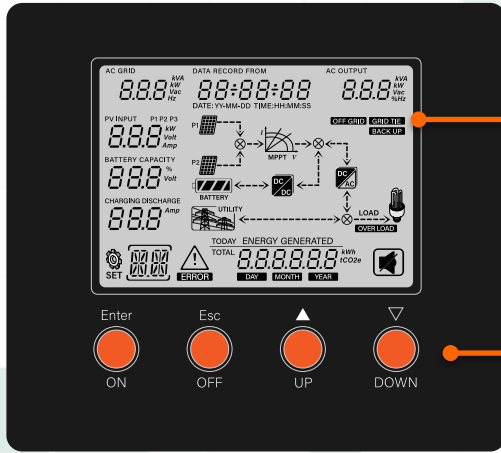
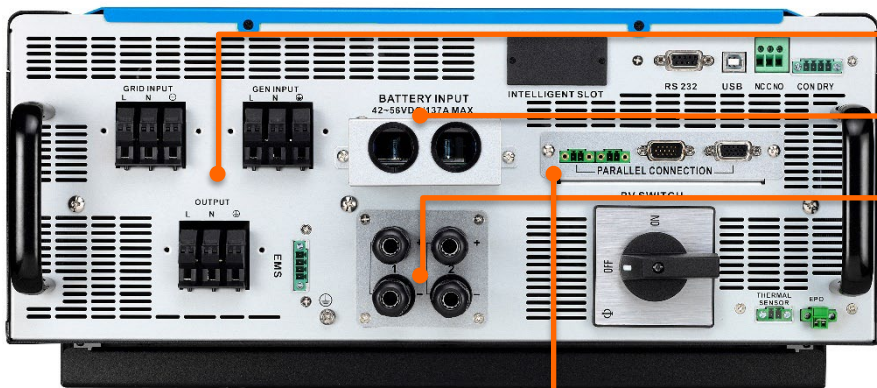| General Features | Values |
|---|---|
| Power Capacity | 5000VA/ 5000W |
| Output Power Factor | 1.0 |
| LINE Mode | 93% |
| BATTERY Mode Full Load | 91% |
| PV Charger (Solar) & AC Charger | Values |
| Solar Charger Type | MPPT (2x) |
| Max. PV Array Open Circuit Voltage | 900VDC |
| Max. PV Array Power | 10kW |
| PV Array MPPT Volt. Range | 200-900VDC |
| Max. Solar Charger Current | 100A |
| Max. AC Charger Current | 100A [30A] |
| Max. Charge Current | 100A |
| Input Specifications | Values |
| Input Voltage Range | 170-280 VAC |
| Frequency (Synchronized Range) | 50Hz or 60Hz |
| Input Type | Terminal (2x (Mains + Generator) |
| Output Specifications | Values |
| Nominal Output Voltage | 230 VAC |
| Voltage Regulation | +/- 5% |
| Outlets | Terminal |
| Battery Specifications | Values |
| Batteries | Designed to work with external Batteries / Is also Battery Independent |
| DC Voltage | 48V (Led Bat) | 51.2V (Lithium-Ion) |
| Transfer Time [AC to Battery] | 10 ms in UPS Mode | 20 ms in Appliance Mode |

## Front Panel

**LCD**

**Function Keys**

Enter — ON
Esc — OFF
▲ — UP
▽ — DOWN

## Back Side Panel

**AC Input/ Output**

**Battery Connectores**

**PV Input**

**Parallel Connectors**

This inverter will function as a **centralized power solution to combine and coordinate**:

- the incoming power of the grid,
- the energy production of the solar system, and
- the stored energy in the battery system.

With enough sun, **start producing your own green energy**!

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**Modes and Solar Priority Charging Settings**:

1. **Grid-tie with Back-up** (4 different modes are available, depending on the user's needs)
2. **Grid-tie** (to only feed back to the grid)
3. **Off-Grid** (3 different modes are available, depending on the user's needs)