



## PRODUCT MODEL

- Solar N Plus 3600 HVS (Hybrid Inverter)
- Solar N Plus 5000 HVS (Hybrid Inverter)
- Solar N Plus 6000 HVS (Hybrid Inverter)
- Solar N Plus HV5-01 (Battery)

Max.  
**2**

2 Times PV Oversize

**2**  
MPPT

Up to 2 MPPT Channels



Suitable for outdoor scenes

**200%**  
**60A**

200% backup overload capacity,  
60A battery current

Max.  
**97.3%**

Max. efficiency 97.3%,  
battery efficiency 97%

**10W**

Load monitoring  
accuracy 10 W



PV production forecast



Online monitoring, online diagnosis, online service



Three-level firmware and two-level hardware battery protection



Built-in electric power service, FCAS, VPP, etc



Internal EMS optimizes home energy supply automatically



Multiple temperature monitoring, Sophisticated thermal management

| INVERTER                           | 3600 HVS  | 5000 HVS        | 6000 HVS                     |
|------------------------------------|---|-----------------|------------------------------|
| <b>BATTERY PORT</b>                |   |                 |                              |
| Battery Type                       | Li-on / Lead-acid   |                 |                              |
| Nominal Battery Voltage [V]        | 96  |                 |                              |
| Battery Voltage Range [V]          | 80-450  |                 | 80-467.2                     |
| Max. Charging Current [A]          | 45  | 60              | 60                           |
| Max. Discharging Current [A]       | 45  | 60              | 60                           |
| <b>INPUT PV</b>                    |   |                 |                              |
| Max. PV Input Power [kW]           | 7.36  | 10              | 10                           |
| Max. PV Input Voltage [V]          | 580   | 580             | 580                          |
| MPPT Range [V]                     | 100-550   | 100-550         | 100-550                      |
| Start-up Voltage [V]               | 100   | 100             | 100                          |
| Max. Input Current [A]             | 15 / 15   | 15 / 15         | 15 / 15                      |
| Max. Short Circuit Current [A]     | 18.75 / 18.75   | 18.75 / 18.75   | 22.5 / 22.5                  |
| MPPT Trackers                      | 2   | 2               | 2                            |
| MPPT Trackers                      | 1 / 1 / 1   | 1 / 1 / 1       | 1 / 1 / 1                    |
| <b>GRID PORT</b>                   |   |                 |                              |
| Rated Output Power [kVA]           | 3.68  | 5 / 4.6 (DE)    | 6                            |
| Max. Output Current [A]            | 16.4  | 22.7            | 27.2 / 26                    |
| Max. Output Apparent Power [kVA]   | 3.68  | 5 / 4.6 (DE)    | 6                            |
| Max. Input Power [kVA]             | 7.36  | 10              | 11.5                         |
| Rated Grid Voltage [Vac]           | 230   | 230             | 220 / 230                    |
| Grid Voltage Range [Vac]           | 180 - 270   |                 |                              |
| Rated Grid Frequency [Hz]          | 50 / 60   |                 |                              |
| Power Factor                       | -0.8 ~ +0.8   |                 |                              |
| THDi                               | < 3%  |                 |                              |
| <b>BACKUP PORT</b>                 |   |                 |                              |
| Surge Backup Power [kVA]           | 7.36  | 10              | 11.5                         |
| Rated Backup Power [kVA]           | 3.68  | 5               | 6                            |
| Rated Backup Voltage [Vac]         | 230   | 230             | 220 / 230                    |
| Rated Backup Frequency [Hz]        | 50/60   |                 |                              |
| THDv                               | < 3% (Linear Load) / < 5% (Non-linear Load)   |                 |                              |
| DCV                                | < 100mV   |                 |                              |
| Crest Ratio                        | 3:1   |                 |                              |
| <b>EFFICIENCY</b>                  |   |                 |                              |
| Max. Efficiency                    | 97.3%   | 97.3%           | 97.3%                        |
| Europe Efficiency                  | 96.2%   | 96.2%           | 96.2%                        |
| MPPT Efficiency                    | 99.9%   | 99.9%           | 99.9%                        |
| Max. Round Trip Efficiency         | 90%   | 90%             | 90%                          |
| <b>HMI&amp;COMM.</b>               |   |                 |                              |
| Communication With BMS             | CAN / RS-485  |                 |                              |
| Load Monitoring                    | Meter / CT / Backup box   |                 |                              |
| External Communication             | RS-485 / WIFI / 4G / Ethernet   |                 |                              |
| User Interface                     | LED / LCD   |                 |                              |
| <b>BATTERY</b>                     |   |                 |                              |
|                                    | <b>HV5-01-1</b>   | <b>HV5-01-2</b> | <b>HV5-01-3</b>              |
| Total Energy [kWh]                 | 5.3   | 10.6            | 15.9                         |
| Battery Module                     | 102.4V 5.3kWh   |                 |                              |
| Number of Modules                  | 1   | 2               | 3                            |
| Cell Type                          | LFP(LiFePO4)  |                 |                              |
| Nominal Voltage [V]                | 102.4   | 204.8           | 307.2                        |
| Operating Voltage [V]              | 80 - 116.8  | 160 - 233.6     | 240 - 350.4                  |
| Max Charge / Discharge Current [A] | 52  | 52              | 52                           |
| Continue Discharge Output [kW]     | 5   | 10              | 15                           |
| <b>GENERAL SPECIFICATIONS</b>      |   |                 |                              |
| Dimensions (W*D*H)[mm]             | 740*220*970   | 740*220*1305    | 740*220*1640                 |
| Approximate Weight [KG]            | 86  | 136             | 186                          |
| IP Rating of Enclosure             | IP65  |                 |                              |
| Operating Temperature              | Optional: Charge/Discharge: 0°C-50°C(without heating film); Charge/Discharge: -20°C-50°C(with heating film) |                 |                              |
| Storage Temperature                | 0°C~35°C  |                 |                              |
| Humidity                           | ≤95%  |                 |                              |
| Altitude [m]                       | ≤3000   |                 |                              |
| Cycle Life                         | Inverter: 5 years / 10 years; Battery: 10+years,6000cycles(90%DOD,25°C)                                     |                 |                              |
| Installation                       | Stack,Floor-Mounted   |                 |                              |
| <b>CERTIFICATION</b>               |   |                 |                              |
| Grid Regulation Safety             | VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020  |                 | CEI 0-21, NRS 097, IEC 61727 |
|                                    | UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1                        |                 | IEC 62116, EREC G99          |
| Safety Regulation                  | IEC/EN 62109-1&2, IEC/EN 62477-1:2012   |                 |                              |
| EMC                                | IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4                                      |                 |                              |
| Battery                            | UN38.3,IEC62619   |                 |                              |