

INV 6 OG

Application: Residential Use



Excellent Performance

- 200% PV oversizing, 150% PV usable power
- Max. 36A PV input current for high-power solar panels
- Max. battery charge/discharge current of 140A/160A
- Max. 11.5kW utility input power



Safety & Reliability

- IP54 protection rating
- Multiple built-in protections, DC/AC Type III SPD
- 3 year Warranty



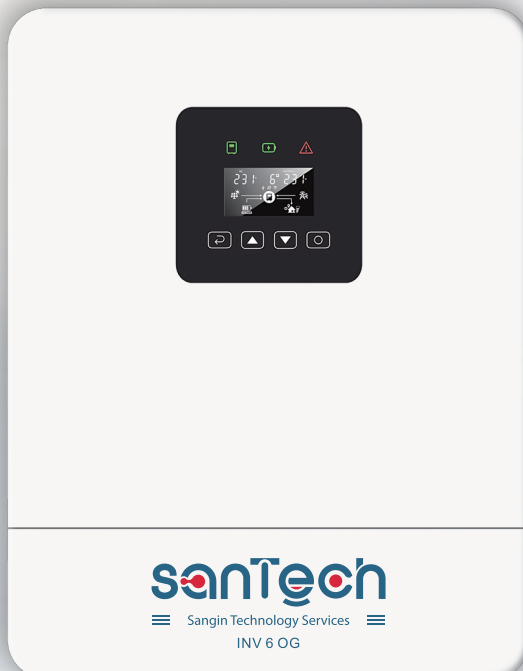
High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- Independent generator port
- Dual output with smart load
- Up to 12 pcs in parallel, support 3-phase parallel system (Only 6K model)



Intelligent Maintenance

- USB OTG function
- Time-Based battery charging/discharging
- Built-in Wi-Fi and bluetooth for local and remote monitoring



SINGLE
PHASE
& LV
BATTERY



INV 6 OG**Efficiency**

Max. Efficiency 95%

PV Input

Max. PV Usable Power 9,000W
 Max. PV Input Voltage 500V
 MPPT Operating Voltage Range 60V-450V
 Start-up Voltage 60V
 No. of MPP Trackers 1
 No. of Strings per MPP Tracker 1
 Max. Input Current Per MPPT 36A

Battery

Battery Type Lithium-ion/Lead-acid
 Nominal Battery Voltage 48V
 Battery Voltage Range 40-60V
 Max. Solar Charging Current 140A
 Max. AC Charging Current 140A
 Max. Charging/Discharging Current 140A/140A

AC Input

Max. Grid Input Power 11,500W
 Max. Input Current 50A
 Nominal Voltage 220V/230V/240V, L+N+PE
 Grid Voltage Range 170V-280V (For UPS), 90V-280V (For Home Appliances)
 Nominal Frequency 50Hz/60Hz

AC Output

Nominal AC Output Power 6,000W/6,000VA
 Nominal Voltage 220V/230V/240V, L+N+PE
 Nominal AC Output Current 27.3A/26A/25A
 Nominal Frequency 50Hz/60Hz
 Max. Grid Passthrough Power (grid to load) 9,000W
 Peak Output Apparent Power 200% @ 5.5s
 THDV <3% @ R Load
 Parallel Capacity 12 PCS
 Transfer Time 10ms Typical (For UPS)
 20ms Typical (For Home Appliances)
 50ms Typical (For Parallel Operation)

Protection

Ingress Protection Degree IP54
 Overvoltage Protection Yes
 Overload Protection Yes
 AC Short Circuit Protection Yes
 Over Temperature Protection Yes
 Surge Protection DC: Type III, AC: Type III

General

Communication Interfaces USB (OTG), RJ45 (for BMS, CAN/RS485), RJ45 (for Parallel), Dry-Contact, Wi-Fi/LAN (Optional)
 Operation Temperature Range -10°C~55°C
 Relative Humidity 5%-95%
 Max. Operating Altitude 4,000m (>2,000m derating)
 Cooling Method Smart Cooling
 Display LED+LCD
 Mounting Wall Bracket
 Dimensions (W*H*D) 347mm*445mm*120mm
 Certification EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC 61000
 Warranty 3 Years

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
 · Specifications are subject to change without advanced notice.

