

NRE INVERTER

RESIDENTIAL

OG SERIES



High Power and Reliability

Rated power: 1.6 kW, surge power: 4 kVA, supports high-load startup.

Maximum PV input power: 3000 W, maximum open-circuit voltage: 450 V.

PV current: 18A, compatible with 210-type photovoltaic panel configurations.



Efficient Energy Management

Utility mode efficiency: >99.5%, battery mode efficiency up to 91%.

Supports dual charging via PV and utility grid, with a maximum charging current of 100 A, enabling fast charging.

Equipped with Battery Management System (BMS), supporting overvoltage, undervoltage, and short-circuit protection.

Supports pure PV-powered load operation.



Intelligent and Flexible Operation

Wide voltage input range: 90–280 VAC.

Supports multiple communication interfaces, including RS485, facilitating system integration and monitoring.



Cost-Effective Design

High-efficiency conversion and low standby power consumption (<25 W), reducing energy consumption.

Incorporates multiple protection mechanisms to enhance system stability and service life.

Off Grid Solar Inverter

Dual Output

2.0 kW



Model
Battery Type
Battery Voltage(V)
Max. Charging Current(A)
Max. Discharging Current(A)
Charging Strategy for Li-ion Battery
Number of Battery Input
Max.PV access power(W)
Max.PV Input Power(W)
Max.PV Input Voltage(V)
Start-up Voltage(V)
MPPT Voltage Range(V)
Rated PV Input Voltage(V)
Max.Operating PV Input Current(A)
No.of MPPT Tackers/String Per MPPT Tracker
Rated AC Output Power(VA/W)
Max.AC Output Power(VA/W)
Peak Power(W)
Rated Output Voltage(V)
Number of AC output ports
Output Type
Rated Output Frequency(Hz)
Total Current Harmonic Distortion THDi
Max.Input Power to Battery(W)
Rated Input Voltage(V)
Voltage Range (V)
Rated Input Frequency(Hz)
Bypass Current(A)
Peak Efficiency(Battery to INV)
Peak Efficiency(PV to INV)
MPPT Efficiency
Communication Interface
Operating Temperature Range (°C)
Permissible Ambient Humidity
Permissible Altitude(m)
Noise(dB)
Ingress Protection(IP) Rating
Inverter Topology
Cabinet Size(DxWxH mm)
Weight(kg)
Type of Cooling
Safety EMC/Standard

OG-1P2K-D
Battery Input Data
Lead-acid or Lithium-ion
12
100
150
Self adaption to BMS
1
PV String Input Data
3750
3000
450
40
30-400
170
18
1/1
AC Output Data
1600
2000
4000
230
2
L+N+PE
50/60
<3% (of nominal power)
AC Input Data
1600
230
90~280
50/ 60 (auto-detect)
17
Efficiency
≥ 91%
>95%
>99%
Interface
RS485(BMS)
General Data
-10~60
5-95%
2000
55
IP21
Non-Isolated
102x281.5x339
5
Intelligent Air Cooling
IEC/EN 62109-1, IEC/EN 62109-2