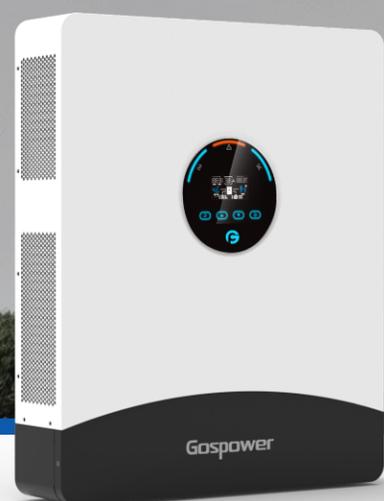


# OFF GRID INVERTER

## GPEO Series EU Single Phase

GPEO-12KL1

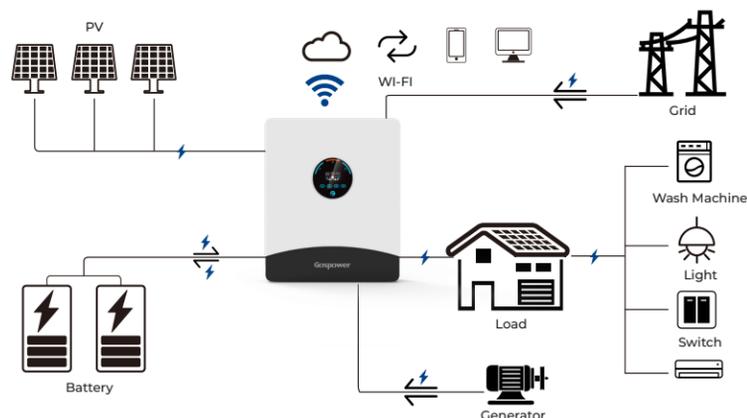
-   
12kW
-   
500V
-   
230V
-   
48V
-   
IP54



Twin PV Input  
Twin AC Output  
IP54 Design  
3 Years Warranty  
Max. 12 Units Parallel  
Wide MPPT Operating Range  
Built-In BMS Communication

CE EN 62109-1 EN62109-2 IEC 61000

### HOUSE ENERGY SYSTEM(OFF GRID)



### CONNECTOR



T1: PV            T3: AC LOAD  
T2: BAT+/BAT-    T4: AC GRID

GPEO-12KL1	
<b>PV(DC Input)</b>	
Recommended max. PV input power	16000W
Max.input voltage(Voc)	500V
MPPT operating voltage range	85V-450V (@85V start up)
Number of MPPT	2
Max. number of input strings per MPPT	2
Max. input current per MPPT	27/27A(MAX:54A)
Max. short-circuit current per MPPT	32A/32A
<b>Grid(AC Input)</b>	
Max input power	20700W
Max input current	90A
Rated grid voltage	220/230/240Vac
Rated grid frequency	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac(For Home Appliances)
<b>Battery parameters (Bidirection)</b>	
Battery type	LiFePO4 /Lead-acid
Battery voltage range	40~60Vdc
Rated Battery Voltage	48Vdc
Max. charge/discharge current	210A/230A
BMS communication mode	RS485
<b>Back-up Output (AC Output)</b>	
Rated output power	12000W/12000VA (Twin output)
Rated output current	54.5A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz
Parallel Capacity	Single-phase Max. 6 units; Three-phase Max. 12 units
Surge power	24000VA 5s
THDv (@ linear load)	<3%
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)
<b>Efficiency</b>	
Peak efficiency	98%
Max. MPPT efficiency	99.9%
<b>Protection</b>	
Inner protection	√Output short-circuit protection √Output overvoltage protection
Surge protection	PV: Type III, AC: Type III
IP rating	IP54
<b>General Parameters</b>	
Operating temperature range	-10°C~ 55°C
Relative humidity range	10%~95%
Max. operating altitude	>2000m derating
Standby self-consumption	<20W
Installation type	Wall-mounted
Cooling mode	Fan cooling
Communication	RS232/RS485R/Dry contact/WI-FI
Display	LCD
<b>Mechanical Specifications</b>	
Inverter dimensions (L*W*H)(mm)	630*525*125
Net weight (kg)	28.5
Carton dimensions (L*W*H)(mm)	715*620*210
Gross weight (kg)	32
Warranty Period	3 Years