

# OFF GRID INVERTER GPEO Series US Single Phase

GPEO-2KL1-US/3K5L1-US

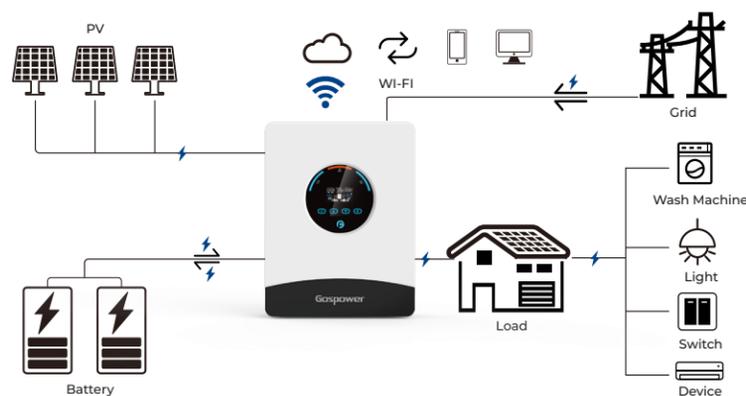
- 2-3.5kW
- 130-500V
- 120V
- 24/48V
- IP21/IP54



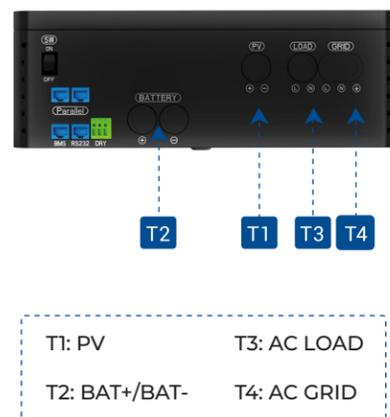
IP21/IP54 Design  
Pure Sine Wave  
110V/120V  
Support LiFePO4 & Lead-acid  
Battery  
2/3 Years Warranty

CE EN 62109-1 EN62109-2 IEC 61000

## HOUSE ENERGY SYSTEM(OFF GRID)



## CONNECTOR



	GPEO-2KL1-US	GPEO-3K5L1-US
<b>PV(DC Input)</b>		
Recommended max. PV input power	1500W	6000W
Max.input voltage(Voc)	130V	500V
MPPT operating voltage range	30~120V(@36V Start up)	85V-450V (@ 85V start up)
Number of MPPT	1	1
Max. number of input strings per MPPT	1	1
Max. input current per MPPT	25A	27A
Max. short-circuit current per MPPT	27A	32A
<b>Grid(AC Input)</b>		
Rated input power	3100W	4500W
Rated input current	26A	37.5A
Rated grid voltage	110/120/127Vac(L,N)	110/120/127Vac (L,N)
Rated grid frequency	50/60Hz	50/60Hz
Acceptable range	80~150Vac (For Home Appliances)	90-140Vac (For UPS); 80-140Vac (For Home Appliances)
<b>Battery parameters (Bidirection)</b>		
Battery type	LiFePO4 /Lead-acid	LiFePO4 /Lead-acid
Battery voltage range	20-30Vdc	40-60Vdc
Rated Battery Voltage	24Vdc	48Vdc
Max. charge/discharge current	120A/110A	60A/65A
BMS communication mode	RS485	RS485
<b>Back-up Output (AC Output)</b>		
Rated output power	2000W/2400VA	3500W/3500VA
Rated output current	20A	29.2A
Rated output voltage/Frequency	110/120/127V(L,N)50/60Hz	110/120/127V(L,N)50/60Hz
Parallel Capacity	-	Max. 12 Units
Surge power	4800VA 2S	7000VA 5s
THDv (@ linear load)	<3%	<3%
Switching time	20ms typical (For Home Appliances)	10ms typical (For UPS) 20ms typical (For Home Appliances)
<b>Efficiency</b>		
Max. efficiency	95.00%	98.00%
Max. MPPT efficiency	90.00%	99.90%
<b>Protection</b>		
Inner protection	√ Output short-circuit protection √Output overvoltage protection	
Surge protection	PV: Type III, AC: Type III	
IP rating	IP21	IP54
<b>General Parameters</b>		
Operating temperature range	-10°C~ 50°C	-5°C~ 50°C
Relative humidity range	10-90%	5-95%
Installation type	Wall-mounted	Wall-mounted
Cooling mode	Fan cooling	Fan cooling
Communication	RS232/RS485	RS232/RS485/Dry contact/WIFI
Display	LCD	LCD
<b>Mechanical Specifications</b>		
Inverter dimensions (L*W*H)(mm)	350*290*108	445*347*120
Net weight (kg)	6.0	12
Carton dimensions (L*W*H)(mm)	495*385*165	560*465*240
Gross weight (kg)	7.0	14
Warranty Period	2 Years	3 Years