

# SOLAR INVERTER

## GPEO Series EU Single Phase

GPEO-1K8L1-M/3K6L1-M



1.8-3.6KW



130/145V



230V



12/24V



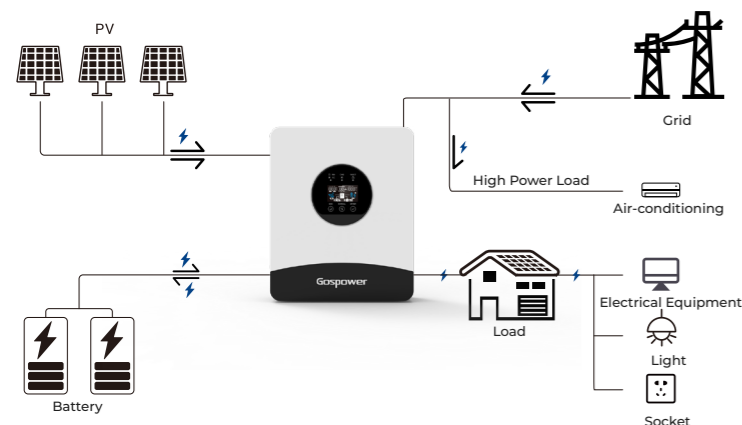
IP21



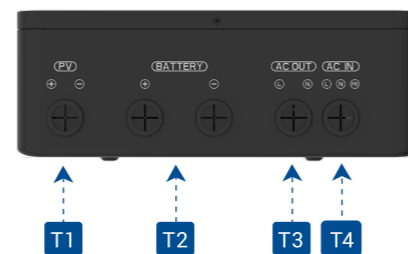
IP21 Design  
Pure Sine Wave  
Support LFP & SLA Battery  
2 Years Warranty

CE EN 62109-1 EN62109-2 IEC 61000

### HOUSE ENERGY SYSTEM



### GPEO-1K8L1-M CONNECTOR



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

	GPEO-1K8L1-M	GPEO-3K6L1-M
<b>PV(DC input)</b>		
Recommended max. PV input power	650W	1500W
Max. input voltage(Voc)	130V	145V
MPPT operating voltage range	15V-120V(@21V start up )	30V-120V(@36V start up)
Number of MPPT	1	
Max. number of input strings per MPPT	1	2
Max. input current per MPPT	20A	25A
Max. short-circuit current per MPPT	25A	27A
<b>Grid(AC input)</b>		
Max. input power	2300W	4600W
Max. input current	10A	20A
Rated grid voltage	220/230/240Vac (L,N,PE)	
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	9.5V~14.5V	20-30V
Rated battery voltage	12Vdc	24Vdc
Max. charge/discharge current	105A/150A	120A/180A
<b>Back-up output (AC output)</b>		
Rated output power	1500W/1800VA	3000W/3600VA
Rated output current	7.8A	15.6A
Rated output voltage	220/230/240V(L,N,PE)	
Frequency	50/60Hz	
Surge power	3600VA 2s	7200VA 2s
THDv (@ linear load)	<3%	
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)	
<b>Efficiency</b>		
Peak efficiency	95%	
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	IP21	
<b>General parameters</b>		
Operating temperature range	-10°C~ 50°C	
Relative humidity range	5%~95%	
Max. operating altitude	>2000m derating	
Standby self-consumption	<10W	
Installation type	Wall-mounted	
Cooling mode	Fan cooling	
Communication	RS232	RS232/RS485
Display	LCD	
<b>Mechanical specifications</b>		
Inverter dimensions (L*W*H)(mm)	350*290*108	
Net weight (kg)	5.5	6
Warranty period	2 Years	