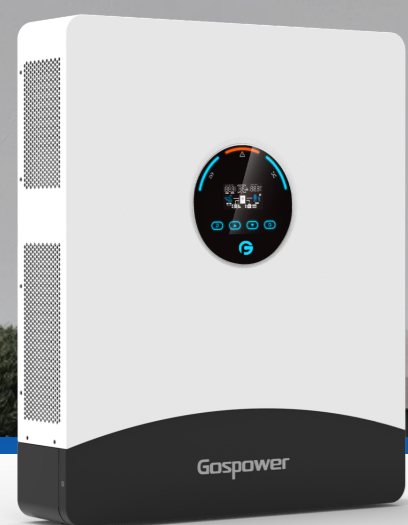


# SOLAR INVERTER GPEO Series EU Single Phase

GPEO-08KL1-4V1/12KL1

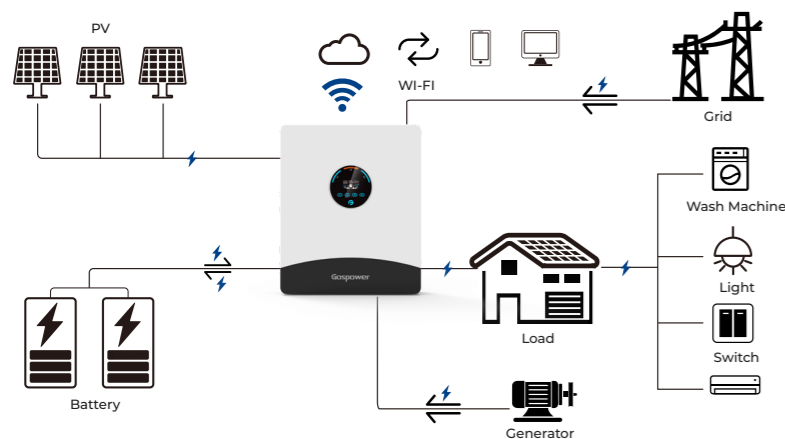
- 8kW-12kW
- 500V
- 230V
- 48V
- IP54



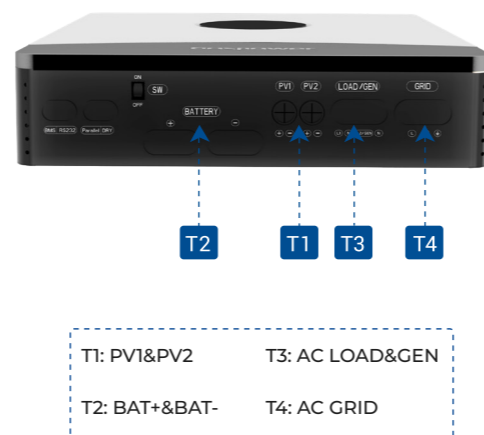
**Twin PV Input  
Twin AC Output  
IP54 Design  
3 Years Warranty  
Max. 12 Units Parallel  
Support Storing Energy from  
Diesel Generator**

**CE** EN 62109-1 EN62109-2 IEC 61000

## HOUSE ENERGY SYSTEM



## GPEO-12KL1 CONNECTOR



OFF-GRID SERIES

	GPEO-08KL1-4V1	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	14950W	20700W
Max. input current	65A	90A
Rated grid voltage	220/230/240Vac	
Rated grid frequency	50/60Hz	
Acceptable range	170-280Vac(For UPS); 90-280Vac(For Home Appliances)	
<b>Generator(AC input)</b>		
Max. input power	11500W	12000W
Rated input f requency	45-65Hz	50/60Hz
Rated input voltage	220/230/240V	230V
Max. generator input current	50A	70A
<b>Battery parameters (Bidirection)</b>		
Battery type	LiFePO4 /Lead-acid	
Battery voltage range	40~60Vdc	
Rated battery voltage	RS485/CAN	RS485
Max. charge/discharge current	160A/180A	210A/230A
BMS communication mode	RS485/CAN	RS485
<b>Back-up output ( AC output)</b>		
Rated output power	8000W/8000VA (Twin output)	12000W/12000VA (Twin output)
Rated output current	36.4A	54.5A
Rated output voltage/frequency	220/230/240Vac 50/60Hz	
Parallel capacity	Single-phase Max. 9 units; Three-phase Max. 12 units	Single-phase Max. 6 units; Three-phase Max. 12 units
Surge power	16000VA 5s	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/RS485/Dry contact/WI-FI	
Display	LCD	
<b>Mechanical specifications</b>		
Inverter dimensions (L*W*H)(mm)	520*420*125	630*525*125
Net weight(kg)	17.5	28.5
Warranty period	3 Years	