

# SOLAR INVERTER GPEO Series EU Single Phase

GPEO-04KL1 PRO-1 /06KL1 PRO-1

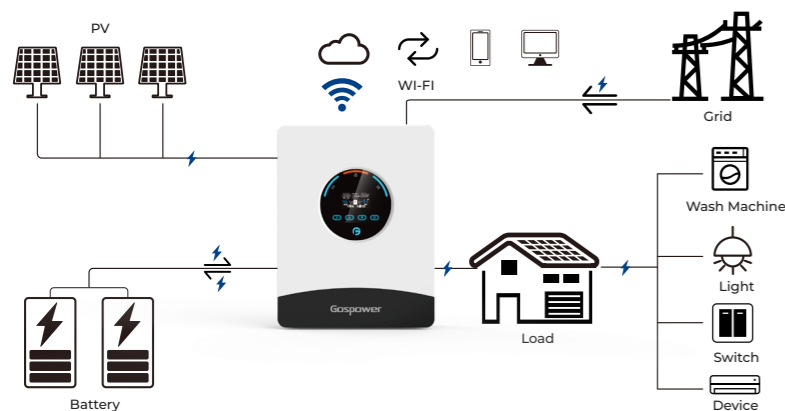
- 4-6kW
- 500V
- 230V
- 24V/48V
- IP54

**Twin AC Output**  
**IP54 Design**  
**Pure Sine Wave**  
**Wide MPPT Operating Range**  
**Built-In BMS Communication**  
**Max. 12 Units Parallel**  
**3 Years Warranty**

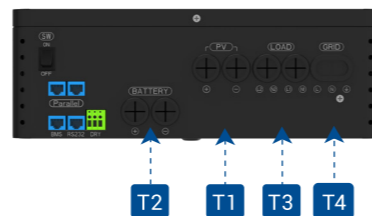


CE EN 62109-1 EN62109-2 IEC 61000

## HOUSE ENERGY SYSTEM



## GPEO-04KL1 PRO-1 CONNECTOR



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

	GPEO-04KL1 PRO-1	GPEO-06KL1 PRO-1
<b>PV(DC input)</b>		
Recommended max. PV input power	6000W	8000W
Max. input voltage(Voc)	500V	
MPPT operating voltage range	85V-450V (@85V start up)	
Number of MPPT	1	
Max. number of input strings per MPPT	1	2
Max. input current per MPPT	15A	27A
Max. short-circuit current per MPPT	18A	32A
<b>Grid(AC input)</b>		
Max. input power	6440W	11500W
Max. input current	28A	50A
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	20~30Vdc	40~60Vdc
Rated battery voltage	24Vdc	48Vdc
Max. charge/discharge current	120A/160A	120A/130A
BMS communication mode	RS485	
<b>Back-up output (AC output)</b>		
Rated output power	4000W/4000VA (Twin output)	6000W/6000VA (Twin output)
Rated output current	18.2A	27.3A
Rated output voltage/frequency	220/230/240Vac 50/60Hz	
Parallel capacity	-	Single-phase Max. 12 units; Three-phase Max. 12 units
Surge power	8000VA 5S	12000VA 5s
THDv (@ linear load)	<3%	
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)	
<b>Efficiency</b>		
Peak efficiency	95%	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	5%~95%	
Max. operating altitude	>2000m derating	
Standby self-consumption	<10W	
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)	445*347*120	
Net weight(kg)	9.2	12.4
Warranty period	3 Years	