

OFF GRID INVERTER GPEO Series EU Single Phase

GPEO-3KL1/04KL1 PRO-1
GPEO-06KL1 PRO-1/08KL1-1

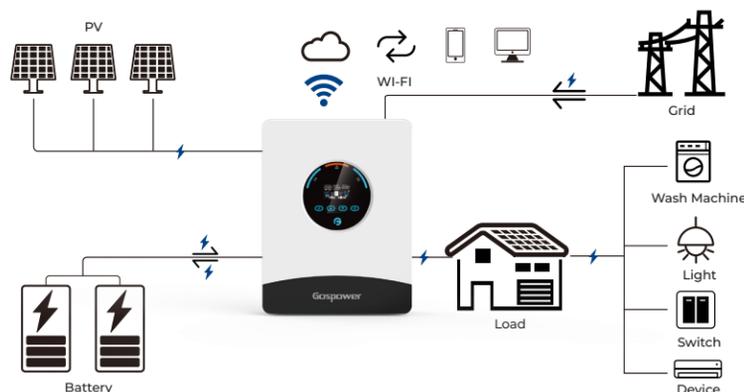
- 
3-8kW
- 
500V
- 
230V
- 
48V
- 
IP54



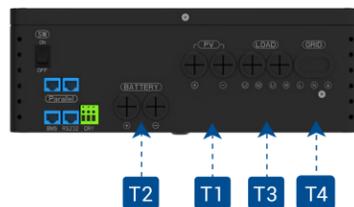
IP54 Design
Pure Sine Wave
Wide MPPT Operating Range
Built-In BMS Communication
Max. 12 Units Parallel
3 Years Warranty

CE EN 62109-1 EN62109-2 IEC 61000

HOUSE ENERGY SYSTEM(OFF GRID)



CONNECTOR



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

	GPEO-3KL1	GPEO-04KL1 PRO-1	GPEO-06KL1 PRO-1	GPEO-08KL1-1
PV(DC Input)				
Recommended max. PV input power	4500W	6000W	8000W	16000W
Max.input voltage(Voc)	500V	500V	500V	500V
MPPT operating voltage range	85V-450V (@85V start up)			
Number of MPPT	1	1	1	2
Max. number of input strings per MPPT	1	1	2	2
Max. input current per MPPT	15A	15A	27A	27/27A(MAX:54A)
Max. short-circuit current per MPPT	18A	18A	32A	32A/32A
Grid(AC Input)				
Max input power	4600W	6440W	11500W	14950W
Max input current	20A	28A	50A	65A
Rated grid voltage	220/230/240Vac	220/230/240Vac	220/230/240Vac	220/230/240Vac
Rated grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac(For Home Appliances)			
Battery parameters (Bidirection)				
Battery type	LiFePO4 /Lead-acid	LiFePO4 /Lead-acid	LiFePO4 /Lead-acid	LiFePO4 /Lead-acid
Battery voltage range	20~30Vdc	20~30Vdc	40~60Vdc	40~60Vdc
Rated Battery Voltage	24Vdc	24Vdc	48Vdc	48Vdc
Max. charge/discharge current	120A/160A	120A/160A	120A/130A	160A/180A
BMS communication mode	RS485	RS485	RS485	RS485
Back-up Output (AC Output)				
Rated output power	3000W/3600VA	4000W/4000VA (Twin output)	6000W/6000VA (Twin output)	8000W/8000VA (Twin output)
Rated output current	15.6A	18.2A	27.3A	36.4A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz			
Parallel Capacity	Single-phase Max. 12 units; Three-phase Max. 12 units	-	Single-phase Max. 12 units; Three-phase Max. 12 units	Single-phase Max. 9 units; Three-phase Max. 12 units
Surge power	7200VA 2s	8000VA 5S	12000VA 5s	16000VA 5s
THDv (@ linear load)	<3%	<3%	<3%	<3%
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)			
Efficiency				
Peak efficiency	95%	95%	98%	98%
Max. MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Inner protection	√Output short-circuit protection √Output overvoltage protection			
Surge protection	PV: Type III, AC: Type III			
IP rating	IP54	IP54	IP54	IP54
General Parameters				
Operating temperature range	-10°C~ 55°C	-10°C~ 55°C	-10°C~ 55°C	-10°C~ 55°C
Relative humidity range	10%~95%	5%~95%	5%~95%	5%~95%
Max. operating altitude	>2000m derating	>2000m derating	>2000m derating	>2000m derating
Standby self-consumption	<10W	<10W	<10W	<20W
Installation type	Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted
Cooling mode	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Communication	RS232/RS485	RS232/RS485/Dry contact/WI-FI		
Display	LCD	LCD	LCD	LCD
Mechanical Specifications				
Inverter dimensions (L*W*H)(mm)	395*315*105	445*347*120	445*347*120	520*420*125
Net weight (kg)	7.9	9.2	12.4	17.5
Carton dimensions (L*W*H)(mm)	495*385*165	560*465*240	560*465*240	590*490*205
Gross weight (kg)	9	11.4	14.6	19.45
Warranty Period	3 Years	3 Years	3 Years	3 Years