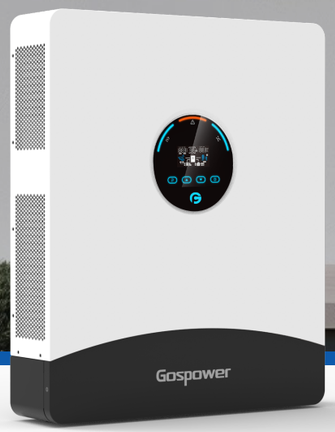
SOLAR INVERTER
GPEO Series EU Single Phase

GPEO-08KL1-4V1/12KL1

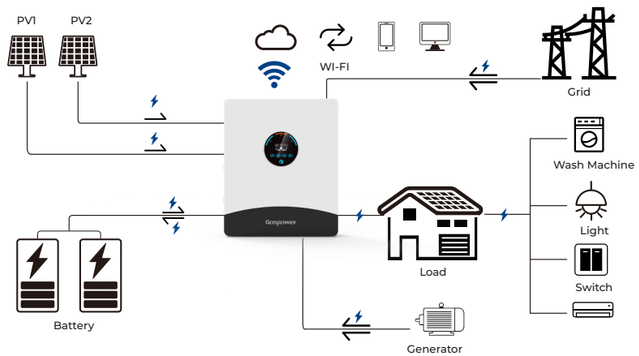
8kW-12kW | 500V | 230V | 48V | IP54



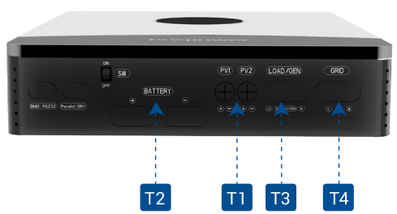
Dual PV Input
Twin AC Output
IP54 Design
3 Years Warranty
Max. 12 Units Parallel
Support Storing Energy from Diesel Generator

CE EN 62109-1 EN62109-2 IEC 61000

HOUSE ENERGY SYSTEM



GPEO-12KL1 CONNECTOR



T1: PV1&PV2 T3: AC LOAD&GEN
T2: BAT+&BAT- T4: AC GRID

OFF-GRID SERIES

Gospower

	GPEO-08KL1-4V1	GPEO-12KL1
PV(DC input)		
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	
Grid(AC input)		
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)	
Generator(AC input)		
Max. input power	11500W	12000W
Rated input voltage/frequency	220/230/240V, 45-65Hz	230V, 50/60Hz
Max. generator input current	50A	70A
Battery parameters (Bidirection)		
Battery type	LiFePO4 /Lead-acid	
Battery voltage range	40~60Vdc	
Rated battery voltage	48Vdc	
Max. charge/discharge current	160A/180A	210A/230A
BMS communication mode	RS485/CAN	RS485
Back-up output (AC output)		
Rated output power	8000W/8000VA	12000W/12000VA
Output Type	Dual 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)	
Efficiency		
Peak efficiency	98%	
Max. MPPT efficiency	99.9%	
Protection		
Inner protection	√Output short-circuit protection √Output overvoltage protection	
Surge protection	PV: Type III, AC: Type III	
IP rating	IP54	
General parameters		
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	
Mechanical specifications		
Inverter dimensions (L*W*H)(mm)	520*420*125	630*525*125
Net weight(kg)	17.5	28.5
Warranty period	3 Years	