

OFF GRID INVERTER

GPEO Series EU Single Phase

GPEO-08KL1-2



8kW



500V



230V



48V



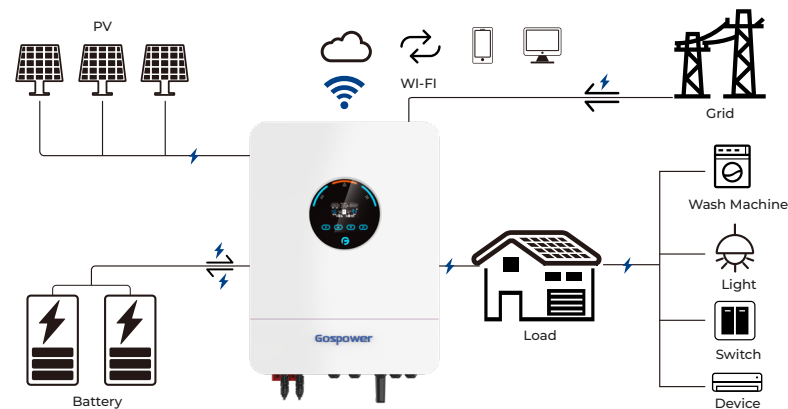
IP65

Twin PV Input
Twin AC Output
IP65 Design
5 Years Warranty
Max. 12 Units Parallel
Wide MPPT Operating Range
Built-In BMS Communication

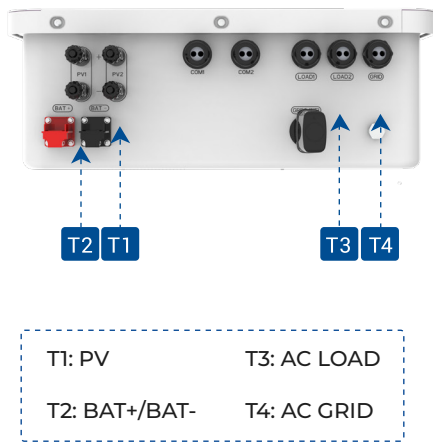


EN 62109-1 EN62109-2 IEC 61000

HOUSE ENERGY SYSTEM(OFF GRID)



CONNECTOR



GPEO-08KL1-2	
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
Max input current	65A
Rated grid voltage	220/230/240Vac
Rated grid frequency	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac(For Home Appliances)
Battery parameters (Bidirection)	
Battery type	LiFePO4 /Lead-acid
Battery voltage range	40~60Vdc
Rated Battery Voltage	48Vdc
Max. charge/discharge current	160A/180A
BMS communication mode	RS485
Back-up Output (AC Output)	
Rated output power	8000W/8000VA (Twin output)
Rated output current	36.4A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz
Parallel Capacity	Single-phase Max. 9 units; Three-phase Max. 12 units
Surge power	16000VA 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	IP65
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	Smart cooling
Communication	RS232/RS485/Dry contact/WI-FI
Display	LCD
Mechanical Specifications	
Inverter dimensions (L*W*H)(mm)	598.8*454*217.2
Net weight (kg)	20.5
Carton dimensions (L*W*H)(mm)	756*555*313
Gross weight (kg)	22.8
Warranty Period	5 Years