

SOLAR INVERTER

GPEO Series EU Single Phase

GPE0-08KL1-4V1



8kW



500V



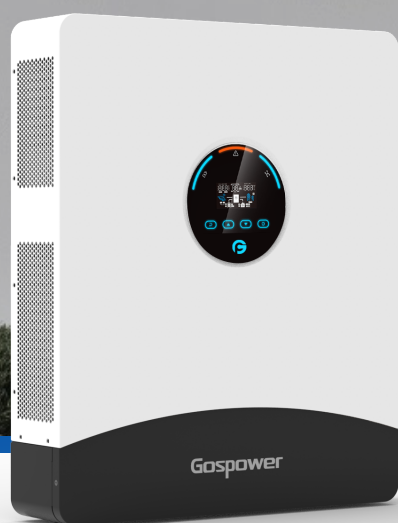
230V



48V



IP54



Twin AC Output

IP54 Design

3 Years Warranty

Max. 12 Units Parallel

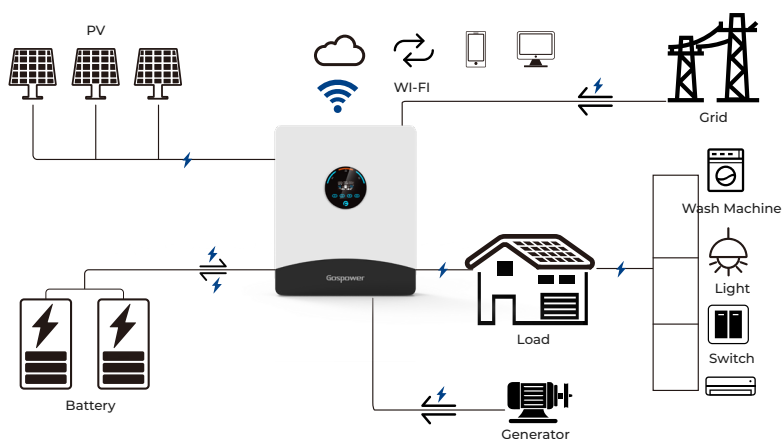
2 MPPTs, Supports 2x PV Oversizing

Support Storing Energy from Diesel Generator



EN 62109-1 EN62109-2 IEC 61000

HOUSE ENERGY SYSTEM



GPE0-08KL1-4V1 CONNECTOR



T2

T1

T3

T4

T1: PV1&PV2

T3: AC LOAD&GEN

T2: BAT+&BAT-

T4: AC GRID

GPE0-08KL1-4V1

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)

Generator(AC Input)

Max. Input Power to Battery	11500W
Rated Input Frequency	45-65Hz
Rated Input Voltage	220/230/240V
Max. Generator Input Current	50A

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/CAN

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	IP54

General Parameters

Operating temperature range	-10°C~ 55°C
Relative humidity range	5%~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)	520*420*125mm
Net weight	17.5kg
Warranty Period	3 Years