

OFF GRID INVERTER GPEO Series US Single/Split Phase

3K5L1-US/6KL2-US/12KL2-US

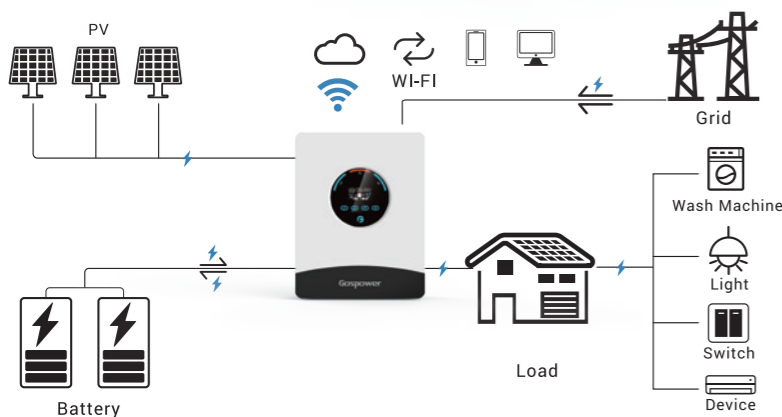
- 
3.5-12Kw
- 
500V
- 
120/240V
- 
48V
- 
IP54



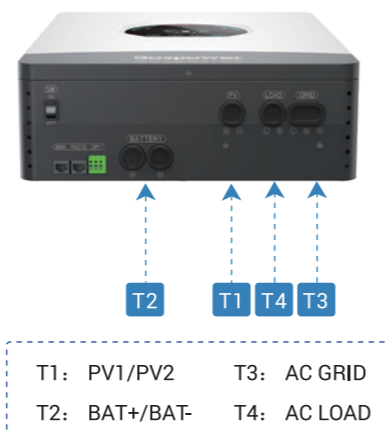
IP54 Design
Pure Sine Wave
Wide MPPT Operating Range
Built-In BMS Communication
Max. 12 Units Parallel
3 Years Warranty

CE EN 62109-1 EN 62109-2 IEC 61000

HOUSE ENERGY SYSTEM (OFF GRID)



CONNECTOR



		GPEO-3K5L1-US	GPEO-6KL2-US	GPEO-12KL2-US
PV (DC Input)	Recommended max. PV input power	4000W	6000W	16000W
	Max. input voltage(Voc)	500V	500V	500V
	MPPT operating voltage range	85V-450V (@85V start up)	85V-450V (@85V start up)	85V-450V (@85V start up)
	Number of MPPT	1	1	2
	Max. number of input strings per MPPT	1	2	2
	Max. input current per MPPT	15 A	27A	27/13(MAX:40A)
	Max. short-circuit current per MPPT	18 A	35A	37A/17.5A
Grid (AC Input)	Max input power	4500W	12000W	21600W
	Max input current	37.5A	50A	90A
	Rated grid voltage	110/120/127Vac (L,N)	120/240(L1,L2,N)	120/240(L1,L2,N)
	Rated grid frequency	50/60Hz	50/60Hz	50/60Hz
	Acceptable range	90-140Vac (For UPS) ; 80-140Vac (For Home Appliances)	90-140Vac (For UPS) ; 80-140Vac (For Home Appliances)	90-140Vac (For UPS) ; 80-140Vac (For Home Appliances)
Battery Parameters (Bidirection)	Battery type	LiFePO ₄ /Lead-acid	LiFePO ₄ /Lead-acid	LiFePO ₄ /Lead-acid
	Battery voltage range	40-60Vdc	40-60Vdc	40-60Vdc
	Rate Battery Voltage	48Vdc	48Vdc	48Vdc
	Max. charge/discharge current	60A/65A	120A/130A	210A/230A
	BMS communication mode	RS485	RS485	RS485
Back-up Output (AC Output)	Rated output power	3500W/3500VA	6000W/6000VA	12000W/12000VA
	Rated output current	29.2A	25A	50A
	Rated output voltage / Frequency	110/120/127V (L,N) 50/60Hz	120/240V (L1,L2,N) 50/60Hz	120/240V (L1,L2,N) 50/60Hz
	Parallel Capacity	Max. 12 Units	Max. 12 Units	Max. 12 Units
	Surge power	7000VA 5s	12000VA 5s	24000VA 5s
	THDv (@ linear load)	<3%	<3%	<3%
	Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)		
Efficiency	Peak efficiency	98.00%	98.00%	98.00%
	Max. MPPT efficiency	99.90%	99.90%	99.90%
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%	5%~95%	5%~95%
	Max. operating altitude	>2000m derating	>2000m derating	>2000m derating
	Standby self-consumption	<10W	<10W	<20W
	Installation type	Wall-mounted	Wall-mounted	Wall-mounted
	Cooling mode	Fan cooling	Fan cooling	Fan cooling
	Communication	RS232/RS485/Dry contact/WI-FI	RS232/RS485/Dry contact/WI-FI	RS232/RS485/Dry contact/WI-FI
Mechanical Specifications	Display	LCD	LCD	LCD
	Inverter dimensions (L*W*H) (mm)	347*445*120	347*445*120	525*630*125
	Net weight (kg)	12	15	29.5
	Shipping dimensions (L*W*H) (mm)	560*465*240	560*465*240	715*620*210
	Gross weight (kg)	14	17	33
	Warranty	3 Years		