

# SOLAR INVERTER GPEO Series EU Single Phase

GPEO-3K6L1-4V1

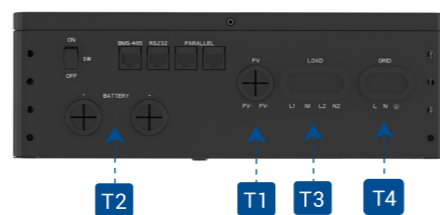
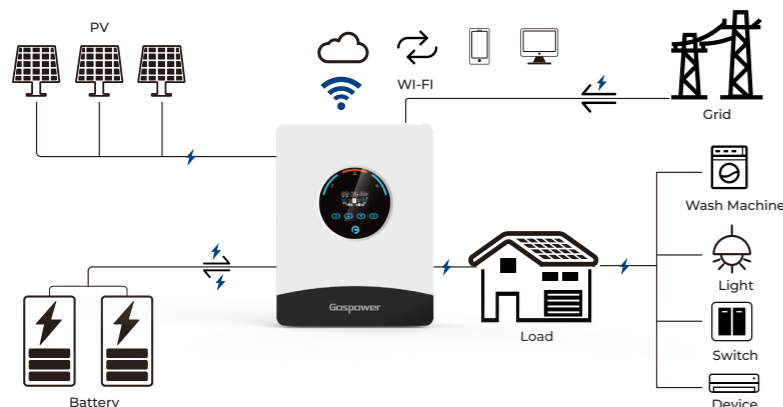
- 3.6kW
- 500V
- 230V
- 24V
- IP54



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



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

OFF-GRID SERIES

GPEO-3K6L1-4V1	
<b>PV(DC input)</b>	
Recommended max. PV input power	4500W
Max. input voltage(Voc)	500V
MPPT operating voltage range	70V-425V (@75V start up)
Number of MPPT	1
Max. number of input strings per MPPT	1
Max. input current per MPPT	18A
Max. short-circuit current per MPPT	20A
<b>Grid(AC input)</b>	
Max. input power	4600W
Max. input current	20A
Rated grid voltage	220/230/240Vac
Rated grid frequency	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac(For Home Appliances)
<b>Battery parameters (Bidirection)</b>	
Battery type	LiFePO4 /Lead-acid
Battery voltage range	20~30Vdc
Rated battery voltage	24Vdc
Max. charge/discharge current	125A / 170A
BMS communication mode	RS485
<b>Back-up output (AC output)</b>	
Rated output power	3600W / 3600VA
Rated output current	16.3A
Rated output voltage/frequency	220/230/240Vac, 50/60Hz
Parallel capacity	Single-phase Max. 12 units; Three-phase Max. 12 units
Surge power	6000VA 2s
THDv (@ linear load)	<3%
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)
<b>Efficiency</b>	
Peak efficiency	95%
Max. MPPT efficiency	99.9%
<b>Protection</b>	
Inner protection	√Output short-circuit protection √Output overvoltage protection
Surge protection	PV: Type III, AC: Type III
IP rating	IP54
<b>General parameters</b>	
Operating temperature range	-10°C~ 55°C
Relative humidity range	10%~95%
Max. operating altitude	>2000m derating
Standby self-consumption	<10W
Installation type	Wall-mounted
Cooling mode	Fan cooling
Communication	RS232/RS485
Display	LCD
<b>Mechanical specifications</b>	
Inverter dimensions (L*W*H)	395*315*105mm
Net weight	7.9kg
Warranty period	3 Years