

# HYBRID INVERTER GPEX Series EU Single Phase

GPEX-3K6L1/5KL1/6KL1

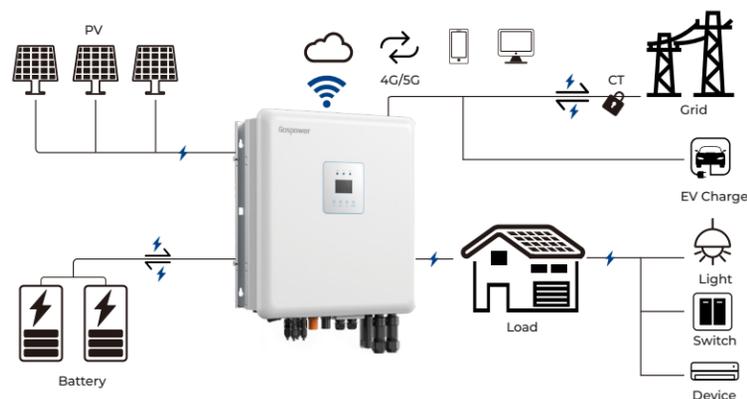
- 3.6-6kW
- 550V
- 230V
- 48V
- IP65



IP65 Design  
Natural cooling  
Support LFP & SLA Battery  
Max.6 Units Parallel  
5 Years Warranty

**CE** Grid Code EN 50549-1 VDE 4105 NTs type A  
NRS 097-2-1 TP C10:11 CEI 0-21

## HYBRID HOUSE ENERGY SYSTEM(ON/OFF GRID)



## CONNECTOR



	GPEX-3K6L1	GPEX-5KL1	GPEX-6KL1
<b>PV(DC Input)</b>			
Recommended max. PV input power	4800W	8000W	8000W
Max.input voltage(Voc)	580V	580V	580V
MPPT operating voltage range	120-550V	120-550V	120-550V
Number of MPPT	1	2	2
Max. number of input strings per MPPT	1	1	1
Max. input current per MPPT	13A	13/13A	13/13A
Max. short-circuit current per MPPT	20A	20A	20A
<b>On-grid(Bidirection)</b>			
Rated input power	3600W	5000W	6000W
Rated input current	15.7A	21.7A	26.1A
Rated grid voltage	230V(L,N,PE) 50/60Hz	230V(L,N,PE) 50/60Hz	230V(L,N,PE) 50/60Hz
THDi	<3%	<3%	<3%
Power factor	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8
<b>Battery parameters (Bidirection)</b>			
Battery type	SLA & LiFePO4	SLA & LiFePO4	SLA & LiFePO4
Battery voltage range	40-60V	40~60Vdc	40~60Vdc
Rated Battery Voltage	48Vdc	48Vdc	48Vdc
Max. charge/discharge current	50A	100A	100A
BMS communication mode	485;CAN	485;CAN	485;CAN
<b>Back-up Output (AC Output)</b>			
Rated output power	3600W/3600VA	5000W/5000VA	6000W/6000VA
Rated output current	15.7A	21.7A	26.1A
Rated output voltage/Frequency	230V(L,N,PE) 50/60Hz	230V(L,N,PE) 50/60Hz	230V(L,N,PE) 50/60Hz
Surge power	3780VA, 10min 4500VA, 1min 5400VA, 1S	5200VA, 10min 6250VA, 1min 7500VA, 1S	6300VA, 10min 7500VA, 1min 9000VA, 1S
THDv (@ linear load)	<3%	<3%	<3%
Switching time	<10ms	<10ms	<10ms
<b>Efficiency</b>			
Max. efficiency	97.20%	98.00%	98.00%
Max. MPPT efficiency	99.90%	99.90%	99.90%
European efficiency	96.40%	97.10%	97.10%
<b>Protection</b>			
protection	√DC switch √PV reverse connection protection √ Battery reverse connection protection √Output short-circuit protection √Output overvoltage protection √Insulation impedance detection √Residual current detection √Anti-island protection		
Surge protection	PV: Type III, AC: Type III		
IP rating	IP65	IP65	IP65
<b>General Parameters</b>			
Operating temperature range	-25-60°C	-25-60°C	-25-60°C
Relative humidity range	0%~95%	0%~95%	0%~95%
Installation type	Wall-mounted	Wall-mounted	Wall-mounted
Cooling mode	Natural cooling	Natural cooling	Natural cooling
Communication	Wi-Fi; R485; CAN; GPRS	Wi-Fi; R485; CAN; GPRS	Wi-Fi; R485; CAN; GPRS
Display	LCD;APP	LCD;APP	LCD;APP
<b>Mechanical Specifications</b>			
Inverter dimensions (L*W*H)(mm)	535*485*198.5	535*485*198.5	535*485*198.5
Net weight (kg)	27.5	29	29
Carton dimensions (L*W*H)(mm)	715*565*337	715*565*337	715*565*337
Gross weight (kg)	31.5	34.5	34.5
Warranty Period	5 Years Standard (10/15 Years Optional)		