

# HYBRID INVERTER GPEX Series EU Single Phase

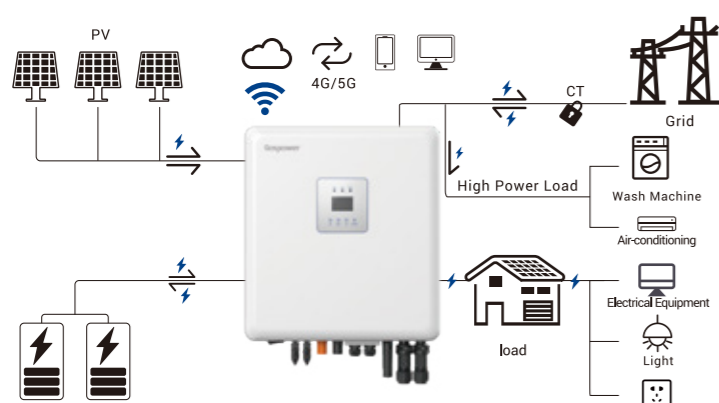
3K6L1/5KL1/6KL1



IP65 Design, Natural Cooling  
Support LFP & SLA Battery  
Max.6 Units Parallel  
5/10/15 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



T1: PV1/PV2 T3: AC GRID  
T2: BAT+/BAT- T4: AC LOAD

		GPEX-3K6L1	GPEX-5KL1	GPEX-6KL1
PV (DC Input)	Recommended max. PV input power	4800W	8000W	8000W
	Max. input voltage(Voc)	600V	600V	600V
	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
On-grid (Bidirection)	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
Battery parameters (Bidirection)	Battery type	SLA & LiFePO <sub>4</sub>	SLA & LiFePO <sub>4</sub>	SLA & LiFePO <sub>4</sub>
	Battery voltage range	40-60V	40-60V	40-60V
	Rated Battery Voltage	48VDC	48VDC	48VDC
	Max. charge/discharge current	50A	100A	100A
	BMS communication mode	485;CAN	485;CAN	485;CAN
Back-up Output (AC Output)	Rated output power	3600W	5000W	6000W
	Rated output current	15.7A	21.7A	26.1A
	Rated output voltage	230V (L,N,PE) 50/60Hz	230V (L,N,PE) 50/60Hz	230V (L,N,PE) 50/60Hz
	Surge power	3960VA	5500VA	6600VA
	THDv (@ linear load)	<3%	<3%	<3%
	Switching time	<10ms	<10ms	<10ms
Efficiency	Max. MPPT efficiency	99.90%	99.90%	99.90%
	Max. efficiency	97.20%	98.00%	98.00%
	European efficiency	96.40%	97.10%	97.10%
	Battery charging/discharging efficiency	94.00%	94.00%	94.00%
Protection	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
General parameters	Operating temperature range	-25~60℃	-25~60℃	-25~60℃
	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
Mechanical Specifications	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*331	715*565*331	715*565*331
	Gross weight (kg)	31.5	34.5	34.5
	Warranty	5 Years Standard (10/15 Years Optional)		