

# HYBRID INVERTER GPEX Series EU Three Phase

GPEX-10KH3/12KH3/15KH3

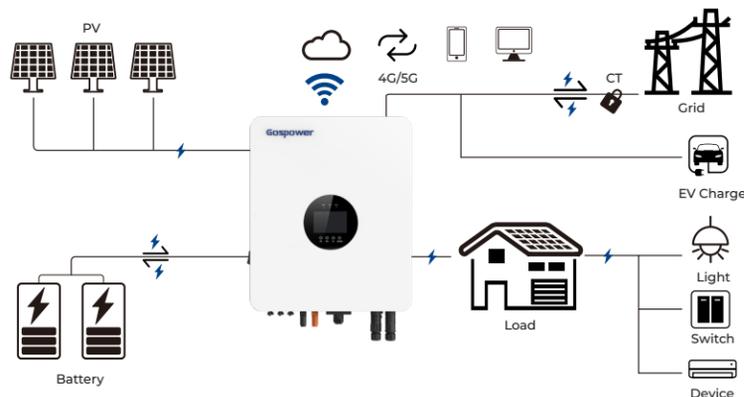
- 10-15kW
- 850V
- 400V
- 160-800V
- IP65



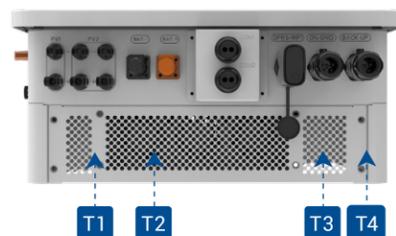
IP65 Design  
Smart cooling  
Support High Voltage Battery  
Built-In BMS Communication  
5 Years Warranty

**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



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

	GPEX-10KH3	GPEX-12KH3	GPEX-15KH3
<b>PV(DC Input)</b>			
Recommended max. PV input power	22800W	22800W	22800W
Max.input voltage(Voc)	1000V	1000V	1000V
MPPT operating voltage range	200-850V(@200v start up)	200-850V(@200v start up)	200-850V(@200v start up)
Number of MPPT	2	2	2
Max. number of input strings per MPPT	1+2	1+2	1+2
Max. input current per MPPT	15A+30A	15A+30A	15A+30A
Max. short-circuit current per MPPT	19.5/40A	19.5/40A	19.5/40A
<b>On-grid(Bidirection)</b>			
Rated input power	10000W	12000W	15000W
Rated input current	14.5A	17.4A	21.7A
Rated grid voltage	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,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	160-800V	160-800V	160-800V
Rated Battery Voltage	400V	400V	400V
Max. charge/discharge current	50A	50A	50A
BMS communication mode	485;CAN	485;CAN	485;CAN
<b>Back-up Output (AC Output)</b>			
Rated output power	10000W/10000VA	12000W/12000VA	15000W/15000VA
Rated output current	14.5A	17.4A	21.7A
Rated output voltage/Frequency	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,N,PE)50/60Hz
Surge power	11000VA	13200VA	16500VA
THDv (@ linear load)	<3%	<3%	<3%
Switching time	<10ms	<10ms	<10ms
<b>Efficiency</b>			
Max. efficiency	99.90%	99.90%	99.90%
Max. MPPT efficiency	98.00%	98.00%	98.00%
European efficiency	97.50%	97.50%	97.50%
<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	-20°C~ 60°C	-20°C~ 60°C	-20°C~ 60°C
Relative humidity range	10-90%	10-90%	10-90%
Installation type	Wall-mounted	Wall-mounted	Wall-mounted
Cooling mode	Smart cooling	Smart cooling	Smart 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)	520*430*200	520*430*200	520*430*200
Net weight (kg)	29	30	31
Carton dimensions (L*W*H)(mm)	695*550*340	695*550*340	695*550*340
Gross weight (kg)	30	31	32
Warranty Period	5 Years Standard (10/15 Years Optional)		