

HYBRID INVERTER GPEX Series US Split Phase

8KH2/10KH2/12KH2/15KH2

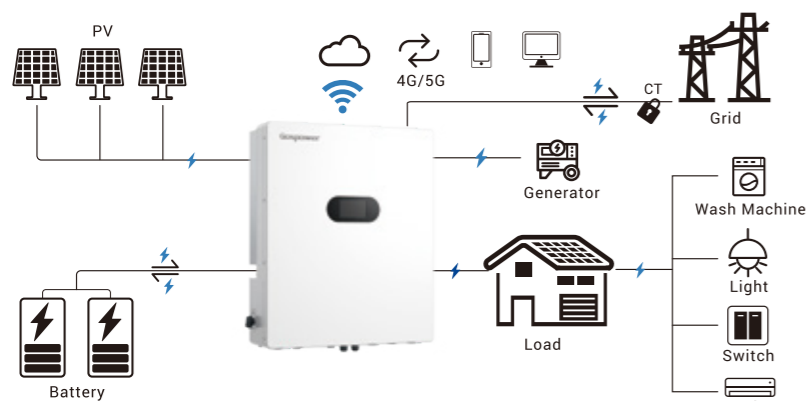
8-15kW 550V 120/240V 75-480V TYPE 4X



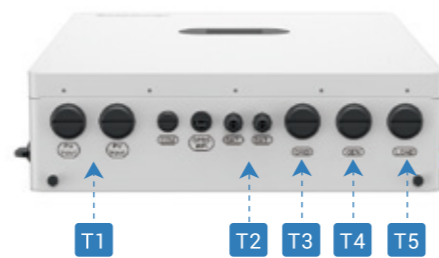
TYPE 4X Design, Natural Cooling
Support Stackable Battery
Generator Port
5/10/15 Years Warranty

UL Grid Code UL1741, UL1699B, IEEE1547.1-2020, FCC (part15 class B), AFCI TYPE1

HYBRID HOUSE ENERGY SYSTEM (ON/OFF GRID)



CONNECTOR



T1: PV1/PV2 T4: GENERATOR
T2: BAT+/BAT- T5: AC LOAD
T3: AC GRID

		GPEX-8KH2	GPEX-10KH2	GPEX-12KH2	GPEX-15KH2
PV (DC Input)	Recommended max. PV input power	14.4kW	14.4kW	20kW	24kW
	Max. input voltage(Voc)	550V	550V	550V	550V
	MPPT operating voltage range	120-550V	120-550V	120-550V	120-550V
	No. of MPPT/Strings per MPPT	4/1	4/1	4/2	4/2
	Max input power per MPPT	3.6KW	3.6KW	5KW	6KW
	Max. input current per MPPT	15.5A	15.5A	27A	27A
	Max. short-circuit current per MPPT	20A	20A	40A	40A
On-grid (Bidirection)	Rated input power (Bidirection)	8kW	10kW	12kW	15kW
	Rated input current (Bidirection)	33.3A	41.6A	50A	62.5A
	Max. Continuous AC input power	20kW	20kW	20kW	20kW
	Max. Continuous AC input current	83.3A	83.3A	83.3A	83.3A
	THDi	<3%	<3%	<3%	<3%
	Rated grid voltage	120/240V,208V (L1, L2, N) 50/60Hz			
Battery Parameters (Bidirection)	Battery type	LiFePO ₄			
	Battery voltage range	75-480Vdc			
	Rated Battery Voltage	153.6Vdc	153.6Vdc	204.8Vdc	204.8Vdc
	Max. charge/discharge current	75A			
	BMS communication mode	CAN/485			
Back-up Output (AC Output)	Rated Output voltage(L-L)	120/240V,208V (L1, L2, N) 50/60Hz			
	Output power/current (L-L)	Rated: 8kW / 33.3A ; Max.: 19kW/79.2A (On Grid)	Rated: 10kW / 41.6A ; Max.: 19kW/79.2A (On Grid)	Rated: 12kW / 50A ; Max.: 19kW/79.2A (On Grid)	Rated: 15kW / 62.5A ; Max.: 19kW/79.2A (On Grid)
	Rated output voltage(L-N)	120 V (L, N) 60Hz			
Generator Parameters (AC Input)	Rated AC input voltage	120/240 V (L1, L2,N) 60Hz			
	Max. AC input current	79.2A			
	Max. AC input power	19kW			
Efficiency	Peak efficiency	97.00%	97.00%	97.00%	97.00%
	Max. MPPT efficiency	99.90%	99.90%	99.90%	99.90%
	Battery charging/discharging efficiency	96.00%	96.00%	96.00%	96.00%
Protection	Inner protection	✓ DC switch ✓ PV reverse connection protection ✓ Battery reverse connection protection ✓ Output short-circuit protection ✓ Output overvoltage protection ✓ ARC protection ✓ Insulation impedance detection ✓ Residual current detection ✓ Anti-island protection			
	Surge protection	PV: Type III, AC: Type III			
	Enclosure Type	Type 4X			
General Parameters	Operating temperature range	-22°F~+140°F (No derating below 113° F)			
	Switching time	10ms typical (On grid/off grid switch)			
	Relative humidity range	>3000m derating			
	Cooling mode	Natural cooling			
	Communication	WIFI/BLUETOOTH	WIFI/BLUETOOTH	WIFI/BLUETOOTH	WIFI/BLUETOOTH
Mechanical Specifications	Inverter dimensions (L*W*H) (mm)	840*680*200	840*680*200	840*680*200	840*680*200
	Net weight (kg)	55	55	55	55
	Shipping dimensions (L*W*H) (mm)	1075*895*365	1075*895*365	1075*895*365	1075*895*365
	Gross weight (kg)	65	65	65	65
	Warranty Period	5 Years Standard (10/15 Years Optional)			