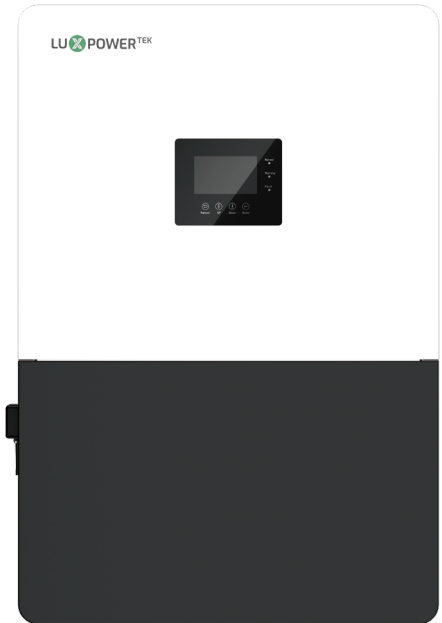


HYBRID SERIES

GEN-HB-US 25K (High Voltage)

- 120/240 split-phase output 25kW
- 6 MPPTs with 8 strings, Max. 48kW PV input
- Working with High Voltage Battery
- Whole House Backup with 200A Output
- Supports up to 6 units in Parallel
- Optimized for Small C&I and High Energy Demand Households



Model		GEN-HB-US 25K
Input (PV DC)		
Max. PV input power (W)		48000
Rated PV input voltage (V)		360
Number of independent MPPT inputs		6 (A:2 / B:2 / C:1 / D:1 / E:1 / F:1)
Max. PV input voltage (V)		550
MPPT voltage range (V)		120 ~ 480
Start-up voltage (V)		120
Max. PV input current per MPPT (A)		34 / 34 / 17 / 17 / 17 / 17
Max. PV short-circuit current input per MPPT (A)		50 / 50 / 30 / 30 / 30 / 30
Battery		
Compatible battery type		Lithium-ion / Lead-Acid
Rated battery voltage (V)		307.2
Battery voltage range (V)		120 ~ 454.4
Max. charging/discharging current (A)		100
Max. charging/discharging power (W)		25000
Force wake up battery from PV function		YES
Grid		
Rated AC voltage (V)		120 / 240, 120 / 208
Rated AC frequency (Hz)		50 / 60
Rated AC output current (A)		104
Rated AC output power (W)		25000
Max. AC input current (W)		108A
PF		0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI		< 5%
Max. continuous AC passthrough current (A)		104A / Split; Bypass 200A
GEN		
Rated GEN voltage (V)		120 / 240, 120 / 208
Rated GEN frequency (Hz)		50 / 60
Rated GEN input current (A)		104
Rated GEN input power (W)		25000
EPS Output - with Battery		
Rated output power (W)		25000
Rated output voltage (V)		120 / 240, 120 / 208
Rated output current (A)		104
Rated output frequency (Hz)		50 / 60
Surge power, duration		2 × rated power for 10s
Switching time		< 15 ms
Wave form		Sine wave
THDV		< 3%
Efficiency		
MPPT efficiency		98.0%
Max. efficiency		94.0%
Max. charge/discharge efficiency		96.0%
Protection		
Anti-islanding Protection		YES
AC Short-circuit Protection		YES
Leakage Current Protection		YES
Grid Monitoring		YES
PV DC Switch		YES
Grid/Load/Generator/Smart Load Breaker integrated		YES
Battery/PV reverse polarity protection		YES
Over Current/Voltage Protection		YES
PV Insulation Detection		YES
Battery Soft Start Protection		YES
SPD Protection		YES
AFCI/RSD protection		YES
GFCI		YES
General		
Dimensions (W × H × D)		626 × 924 × 285 mm / 24.7 × 36.4 × 11.2 in
Weight		73 kg / 160.94 lbs
Ingress protection rating		IP65
Display		LCD
Topology		Transformer-less
Ambient Temperature Range		-25 ~ 60°C (> 45°C, output derating)
Standby Losses		10W Sleep Mode, 30W Standby Mode
Cooling		Smart Cooling
Relative Humidity Range		0 ~ 100%
Max. Operating Altitude (m)		2000
Noise emission (dB)		55
Communication from Inverter		SunSpec Modbus RTU over RS485, RJ45 for ext Wifi Dongle
Standards & Certification		
UL 1741SA, UL 1741SB, CSA C22.2, CEC, IEEE 1547.1, HECO SRD V2.0		