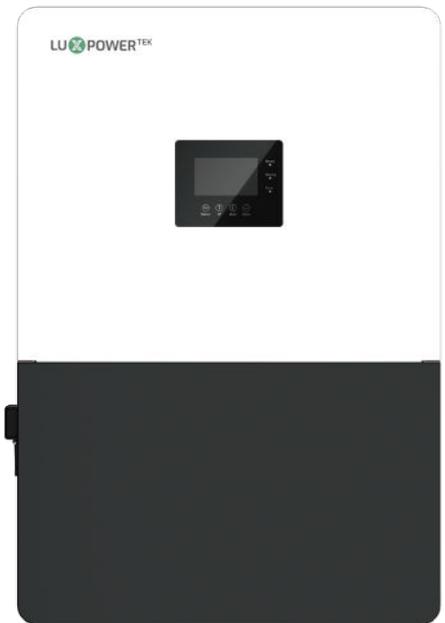


HYBRID SERIES

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 | | |