

HYBRID SERIES

GEN-LB-US 5-13K

- 2 MPPTs with 4 strings input, Max. 18kW PV input
- Supports up to 10pcs in parallel for on/off grid
- Peak shaving function
- Auto start/stop, works with battery and PV for load support.
- AC coupling function to retrofit the existing grid-tied system
- Remote Monitoring & AI Optimization



Model	GEN-LB-US 5K	GEN-LB-US 6K	GEN-LB-US 8K	GEN-LB-US 10K	GEN-LB-US 13K
Input (PV DC)					
Max. PV array power (W)	12000	14000	19000	21000	21000
Max. PV input power (W)	10000	12000	16000	18000	18000
Rated PV input voltage (V)	360				
Number of independent MPPT inputs	2 / (2:2)				
Max. PV input voltage (V)	550				
MPPT voltage range (V)	120 ~ 440				
Start-up voltage (V)	140				
Max. PV input current per MPPT (A)	26 / 26				
Max. PV short-circuit current input per MPPT (A)	31 / 31				
Battery					
Compatible battery type	Lithium-ion / Lead-Acid				
Rated battery voltage (V)	48				
Battery voltage range (V)	40 ~ 60				
Max. charging / discharging current (A)	104	125	167	208	208
Max. charging / discharging power (W)	5000	6000	8000	10000	10000
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 with PV (A)	20.8A@240V/ 24A@208V	25A@240V/ 28.8A@208V	33.3A@240V/ 38.5A@208V	41.6A@240V/ 48A@208V	54
Rated AC output power with PV (W)	5000	6000	8000	10000	13000@240V/11200@208V
Max. AC input current (A)	63				
THDI	<3%				
Max. continuous AC passthrough current (A)	90				
GEN					
Rated GEN voltage (V)	120 / 240 ; 120 / 208				
Rated GEN frequency (Hz)	50 / 60				
Rated GEN input current (A)	62.5				
Max. GEN input current (A)	80				
Rated GEN input power (W)	15000				
UPS					
Rated output power (W)	5000	6000	8000	10000	10000
Rated output voltage (V)	120 / 240 ; 120 / 208				
Rated output current (A)	20.8A@240V/ 24A@208V	25A@240V/ 28.8A@208V	33.3A@240V/ 38.5A@208V	41.6A@240V/ 48A@208V	41.6A@240V/ 48A@208V
Rated output frequency (Hz)	50 / 60				
Surge power, duration	2 × rated power for 0.5s				
Switching time	20ms				
Wave form	Sine wave				
THDV	< 3%				
Efficiency					
Max. MPPT efficiency	99.9%				
Max. efficiency	97.5%				
Battery charge / discharge efficiency	94.0%				
CEC efficiency	96.6%				
Protection					
PV reverse polarity protection	YES				
Over current / voltage protection	YES				
Anti-islanding protection	YES				
AC short-circuit protection	YES				
Leakage current protection	YES				
DC switch	YES				
AC / DC surge protection	Type III				
Rapid shut down	YES				
Grid / AFCI / RSD monitoring	YES				
Load breaker	80A				
Battery breaker	250A / 80V				
General					
Dimensions (W × H × D)	566 × 773 × 285 mm / 22.3 × 30.4 × 11.2 in				
Weight	55 kg / 121.3 lbs				
Ingress protection rating	IP66 / NEMA 4X				
Relative humidity	0 ~ 100%				
Operating environment temperature range (°C)	-25 ~ 60°C, > 45°C Derating				
Storage temperature range (°C)	-25 ~ 60				
Display & Communication interface	Touch color screen, RS485 / Wi-Fi / CAN				
Warranty	5 / 10 years				
Cooling method	Smart Cooling				
Topology	Transformerless				
Max. Operating Altitude (m)	2000				
Standards & Certification					
UL 1741SA, UL 1741SB, CSA C22.2, CEC, FCC Part15B, IEEE 1547.1, HECO SRD V2.0 System: UL9540 with PSIELD MAX Battery					