

HYBRID SERIES

GEN-LB-US 9.6K PRO/12K PRO/13K PRO
GEN-LB-US 16K

- 3 MPPTs with 5 strings input, Max. 21kW PV input
- 200A grid passthrough for whole home backup
- 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 9.6K PRO	GEN-LB-US 12K PRO	GEN-LB-US 13K PRO	GEN-LB-US 16K
Input (PV DC)				
Max. PV array power (W)	25000			
Max. PV input power (W)	21000			
Rated PV input voltage (V)	360			
Number of independent MPPT inputs	3 / (2:2:1)			
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 / 15			
Max. PV short-circuit current input per MPPT (A)	31 / 31 / 19			
Battery				
Compatible battery type	Lithium-ion / Lead-Acid			
Rated battery voltage (V)	48			
Battery voltage range (V)	40 ~ 60			
Max. charging / discharging current (A)	250			
Max. charging / discharging power (W)	12000			
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)	40@240V; 46@208V	50@240V/57.7@208V	54@240V; 62.5@208V	66.7
Rated AC output power with PV (W)	9600	12000	13000	16000@240V/13800@208V
Max. AC input current (A)	200			
THDI	<3%			
Max. continuous AC passthrough current (A)	200			
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)	12000			
Rated output voltage (V)	120 / 240 ; 120 / 208			
Rated output current (A)	50@240V ; 57.7@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	96.9%			
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	200A			
Battery breaker	400A / 80V			
General				
Dimensions (W × H × D)	566 × 893 × 285 mm / 22.3 × 35.2 × 11.2 in			
Weight	57 kg / 125.7 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, UL 9540 System: UL9540 with PSHIELD MAX Battery				