HYBRID SERIES

GEN-LB-US 9.6K PRO/12K 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 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	66.7
Rated AC output power with PV (W)	9600	12000	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 protecion	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