

HYBRID SERIES

GEN-LB-US 13K

- MPPTs with 4 strings input, Max. 21kW 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 13K
Input (PV DC)		
Max. PV array power (W)		21000
Max. PV input power (W)		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)		208
Max. charging / discharging power (W)		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)		54
Rated AC output power with PV (W)		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)		10000
Rated output voltage (V)		120 / 240 ; 120 / 208
Rated output current (A)		41.6@240V ; 48@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		Transformer-less
Max. Operating Altitude (m)		2000
Standards & Certification		

UL 1741SA, UL 1741SB, CSA C22.2, CEC, FCC Part15B, IEEE 1547.1, HECO SRD V2.0