

HYBRID SERIES

Single-Phase

GEN-LB-EU 7-10K

- 2 MPPTs, Max. PV input 15kW
- Max. charging and discharging current: 210A
- Supports up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge for e-bill reduction
- Separate port for
 - Generator connection
 - Auto generator control
 - Support generator exercise
 - Support generator boost function
 - Or smart load connection and auto control
 - Or AC coupling function



Specification

Your Reliable
Energy Solution
Partner

INPUT (PV DC)	GEN-LB-EU 7K		GEN-LB-EU 8K	GEN-LB-EU 10K
Max. PV array power(W)	12000		12000	15000
Rated PV input voltage(V)			360	
Number of independent MPPT inputs			2/(2:2)	
PV input voltage range(V)			100~600	
MPPT voltage range(V)			120~500	
Start-up voltage(V)			140	
Max. PV input current per MPPT(A)			25	
Max. PV short-circuit current input per MPPT(A)			34	
Battery				
Compatible battery type	Lithium-ion/Lead-Acid			
Rated battery voltage(V)			48	
Battery voltage range(V)			40~60	
Max. charge/discharge current(A)	146		167	210
Max. charge/discharge power(W)	7000		8000	10000
Force wake up battery from PV function(Y/N)			YES	
Grid				
Rated AC voltage(V)			230	
Rated AC frequency(Hz)			50/60	
Rated AC output current(A)	30.4		34.7	43.5
Rated AC output power(W)	7000		8000	10000
Max. AC input power(W)			15000	
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI			<3%	
Max. continuous AC passthrough current(A)			90	
UPS				
Rated output power(W)	7000		8000	10000
Rated output voltage(V)			230	
Rated output current(A)	30.4		34.7	43.5
Rated output frequency(Hz)			50/60	
Surge power, duration			2Pn, 0.5s	
Switching time			< 20ms	
Wave form			Sine wave	
THDV			<3%	
Efficiency				
MPPT efficiency			99.9%	
Max. efficiency@PV to grid			97.5%	
Max. efficiency@battery to grid			94%	
Max. charge/discharge efficiency			94%	
Protection				
PV reverse polarity protection			YES	
Over current/voltage protection			YES	
Anti-islanding protection			YES	
AC Short-circuit current protection			YES	
Leakage current protection			YES	
Ground fault monitoring			YES	
Grid monitoring			YES	
DC Switch			YES	
AC/DC Surge protection Type III			YES	
General				
Dimensions(W*H*D)	536*556*290mm/21.1*21.9*11.4inch			
Weight	42.64kg/94lbs			
Ingress protection rating	IP65/NEMA 4X			
Relative humidity	0~100%			
Operating environment temperature range(°C)	-25~60			
Storage temperature range(°C)	-25~60			
Display & Communication interface	Touch color screen, RS485/Wifi/CAN			
Warranty	5 years			
Cooling method	Smart cooling			
Topology	Transformer-less			
Altitude	<2000m			
Noise emission(typical)	<50dB			
Standard & Certification				
G99, G100, NR5 097				