

# 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

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	
<b>Battery</b>			
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	
<b>Grid</b>			
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	
<b>UPS</b>			
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%	
<b>Efficiency</b>			
MPPT efficiency		99.9%	
Max. efficiency@PV to grid		97.5%	
Max. efficiency@battery to grid		94%	
Max. charge/discharge efficiency		94%	
<b>Protection</b>			
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	
<b>General</b>			
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	
<b>Standard &amp; Certification</b>			
G99, G100, NRS 097			