

HYBRID SERIES

GEN-LB-EU 7K (Single-Phase)

- 2 MPPTs, Max. PV input 12kW
- Max. charging and discharging current: 146A
- 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



Model	GEN-LB-EU 7K
INPUT (PV DC)	
Max. PV input power(W)	12000
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
Max. charge/discharge power(W)	7000
Force wake up battery from PV function	YES
Grid	
Rated AC voltage(V)	230
Rated AC frequency(Hz)	50/60
Rated AC output current(A)	30.4
Rated AC output power(W)	7000
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
GEN	
Rated GEN voltage (V)	230
Rated GEN frequency (Hz)	50/60
Rated GEN input current (A)	60
Rated GEN input power (W)	13800
Rated GEN current of BYPASS relays (A)	90
UPS	
Rated output power(W)	7000
Rated output voltage(V)	230
Rated output current(A)	30.4
Rated output frequency(Hz)	50/60
Surge power, duration	2Pn, 0.5s
Switching time (UPS)	< 20ms
Wave form	Sine wave
THDV	< 3%
Efficiency	
MPPT efficiency	99.9%
Max. efficiency	97.5%
Max. charge/discharge efficiency	94.0%
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
General	
Dimensions(W*H*D)	536*556*290mm/21.1*21.9*11.4in
Weight	42.64kg/94lbs
Ingress protection rating	IP66
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(m)	<2000
Noise emission(typical)	<50dB
Standard & Certification	

G99, G100, NRS 097, EN/IEC 62109-1/2, IEC 61683, EN 61000, EN 62920, IEC62116, IEC61727