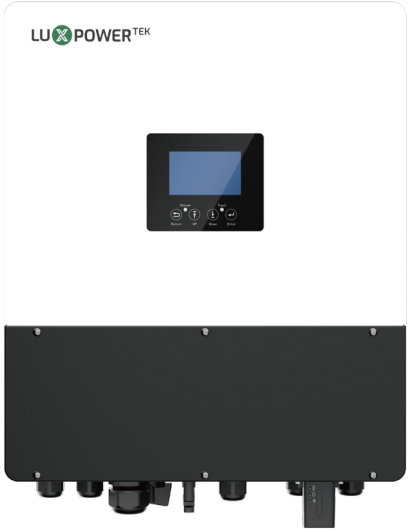
HYBRID SERIES

GEN2-LB-EU 3-6K (Single-Phase)

- 2 MPPTs with Max. PV Input of 9.6kW, 18A Max. PV Input Current per MPPT
- Max. Charge/Discharge Current: 125A / 140A
- Parallel Operation Support: Up to 10 units for both on-grid and off-grid systems
- 24/7 Real-Time Monitoring: Access and manage remotely
- Dedicated Ports for Multiple Connections:
  - Generator Connection
  - Smart Load Connection
  - AC Coupling Function



Model	GEN2-LB-EU 3K	GEN2-LB-EU 3.6K	GEN2-LB-EU 4K	GEN2-LB-EU 4.6K	GEN2-LB-EU 5K	GEN2-LB-EU 6K
Input (PV DC)						
Max. PV input power (W)	6600	7000		9000	9600	
Rated PV input voltage (V)	360					
Number of independent MPPT inputs	2/(1:1)					
PV input voltage range (V)	100~530					
MPPT voltage range (V)	150~425					
Start-up voltage (V)	100					
Max. PV input current per MPPT (A)	18					
Max. PV short-circuit current input per MPPT (A)	32					
Battery						
Compatible battery type	Lithium-ion/Lead-Acid					
Rated battery voltage (V)	48					
Battery voltage range (V)	40~60					
Max. charging/discharging current (A)	80/80	80/80	80/80	96/96	105/120	125/140
Max. charging/discharging power (W)	3000	3600	4000	4600	5000	6000
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)	13	15.7	17.4	20	21.7	26
Rated AC output power (W)	3000	3600	4000	4600	5000	6000
Max. AC intput power (W)	12000					
PF	0.99(Adjustable from 0.8 leading to 0.8 lagging)					
THDI	＜3%					
Max. continuous AC passthrough current(A)	52.2					
GEN						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50/60					
Rated GEN input current (A)	40					
Rated GEN input power (W)	9200					
Rated GEN current of BYPASS relays (A)	60					
UPS						
Rated output power (W)	3000	3600	4000	4600	5000	6000
Rated output voltage (V)	230					
Rated output current (A)	13	15.7	17.4	20	21.7	26
Rated output frequency (Hz)	50/60					
Surge power, duration	2Pn, 0.5s					
Switching time (UPS)	20ms					
Wave form	Sine wave					
THDV	＜5%					
Efficiency						
MPPT efficiency	99.9%					
Max. efficiency	97.3%					
Max. charge / discharge efficiency	94.5%					
Protection						
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					
DC surge protection	Type III					
AC surge protection	Type III					
General						
Dimensions (W*H*D)	528*440*220mm / 20.8*17.4*8.7 in					
Weight	25kg / 55 lbs					
Ingress protection rating	NEMA4X/ IP66					
Operating environment temperature range (°C)	-25~60					
Storage temperature range (°C)	-40~65					
Relative humidity	0~100%					
Display & Communication interface	LCD+RGB, RS485/Wi-Fi/CAN					
Warranty	5/10 years					
Cooling method	Smart cooling					
Topology on AC side	Transformer-less					
Topology on Battery side	Transformer					
Altitude(m)	2000					
Noise emission(typical)	50dB					
DC connection(VP-D4/MC4(Optional)	MC4					
AC connector	YES					
Standards & Certification						
G99, G100, CEI 0-21, RD 1699, NTS, UNE 217001, NRS 097						