

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
<b>Input (PV DC)</b>						
Max. PV input power (W)	6600	7000		9000		9600
Rated PV input voltage (V)				360		
Number of independent MPPT inputs				2 / (1:1)		
Max. PV input voltage (V)				530		
MPPT voltage range (V)				150 ~ 425		
Start-up voltage (V)				100		
Max. PV input current per MPPT (A)				18 / 18		
Max. PV short-circuit current input per MPPT (A)				32 / 32		
<b>Battery</b>						
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					
<b>Grid</b>						
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 input 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					
<b>GEN</b>						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50 / 60					
Rated GEN input current (A)	40					
Rated GEN input power (W)	9200					
<b>UPS</b>						
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	2 × rated power for 0.5s					
Switching time (UPS)	7ms					
Wave form	Sine wave					
THDV	< 5%					
<b>Efficiency</b>						
MPPT efficiency	99.9%					
Max. efficiency	97.3%					
Max. charge / discharge efficiency	94.5%					
<b>Protection</b>						
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					
<b>General</b>						
Dimensions (W × H × D)	440 × 528 × 220 mm / 17.4 × 20.8 × 8.7 in					
Weight	25 kg / 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	Natural Cooling			Smart cooling		
Topology on AC side	Transformerless					
Topology on Battery side	Transformer					
Max. Operating Altitude (m)	2000					
Noise emission (dB)	30			40		50
DC connection (VP-D4/MC4 (Optional))	MC4					
AC connector	YES					
<b>Standards &amp; Certification</b>						
EN 62109/EN 61000, IEC 62116, IEC 61727, IEC 61683, G100/G99/G98, PIPEREE TypeA, CEI 0-21: 2022 (V2:2024-01)						