

HYBRID SERIES

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

- 2 MPPTs with Max. PV Input of 9.6kW, 18A Max. PV Input Current per MPPT
- Max. charge and discharge current: 125/140A
- Support up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge for e-bill reduction
- On/off grid seamless switching
- 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 3K	GEN-LB-EU 3.6K	GEN-LB-EU 4K	GEN-LB-EU 4.6K	GEN-LB-EU 5K	GEN-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)			
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			
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 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			
GEN						
Rated GEN voltage (V)			230			
Rated GEN frequency (Hz)			50 / 60			
Rated GEN input current (A)			26			
Rated GEN input power (W)			6000			
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			2 × rated power for 0.5s			
Switching time (UPS)			20 ms			
Wave form			Sine wave			
THDV			< 5%			
Efficiency						
MPPT efficiency			99.9%			
EU efficiency			95.4%			
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)			487 × 455 × 211.7 mm / 19.2 × 17.9 × 8.3 in			
Weight			29 kg / 64 lbs			
Ingress protection rating			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			
Max. Operating Altitude (m)			2000			
Noise emission (dB)			50			
DC connection (VP-D4 / MC4 (Optional))			MC4			
AC connector			YES			
Standards & Certification						

G99, G100, CEI 0-21, RD 1699, NTS, UNE 217001, NRS 097, EN/IEC 62109-1/2, IEC 61683, EN 61000, EN 62920, IEC 62116, IEC 61727