

HYBRID SERIES

GEN3-LB-EU 6-8K (Single-Phase)

- Next-generation internal structure optimization for easier handling and installation.
- Supports up to 12 kW PV input with 2 independent MPPTs for enhanced energy generation efficiency.
- Up to 180 A charge/discharge current to maximize battery potential.
- IP66 protection rating for reliable performance in outdoor environments.
- Built-in Type II AC/DC surge protection for enhanced system safety.



Model	GEN3-LB-EU 6K		GEN3-LB-EU 8K	
Input (PV DC)				
Max. PV input power (W)	12000			
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)	140			
Max. PV input current per MPPT (A)	20			
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. charge / discharge current (A)	125		180	
Max. charge / discharge power (W)	6000		8000	
Force wake up battery from PV and GEN function	YES			
Grid				
Rated AC voltage (V)	230			
Rated AC frequency (Hz)	50 / 60			
Rated AC output current (A)	26		34.7	
Rated AC output power (W)	6000		8000	
Max. AC input current (A)	52			
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			
GEN				
Rated GEN voltage (V)	230			
Rated GEN frequency (Hz)	50 / 60			
Rated GEN input current (A)	52			
Rated GEN input power (W)	12000			
UPS				
Rated output power (W)	6000		8000	
Rated output voltage (V)	230			
Rated output current (A)	26		34.7	
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 10s			
Switching time	7ms			
Wave form	Sine wave			
THDV	< 3%			
Efficiency				
MPPT efficiency	99.9%			
Max. charge / discharge efficiency	95.0%			
Protection				
Over current / voltage protection	YES			
Anti-islanding protection	YES			
AC Short-circuit current protection	YES			
Leakage current protection	YES			
AFCI	Optional			
Ground fault monitoring	YES			
Grid monitoring	YES			
DC Switch	YES			
AC / DC Surge protection	Type II			
General				
Dimensions (W × H × D)	412 × 534.5 × 229.5 mm / 16.22 × 21.04 × 9.04 in			
Weight	TBD			
Ingress protection rating	IP66			
Relative humidity	0 ~ 100%			
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating			
Storage temperature range (°C)	-40 ~ 65			
Display & Communication interface	LCD, RS485, Wifi, CAN			
Warranty	5 years			
Cooling method	Natural Cooling		Smart cooling	
Topology on AC / Battery side	Transformer			
Max. Operating Altitude (m)	2000, > 2000 Derating			
Noise emission (dB)	30		50	
Standard & Certification				
EN62109-1/-2, EN61000, EN50549-1/-10, UNE27001/UNE27002				