

HYBRID SERIES

GEN PRO-LB-EU 8-12K (Single-Phase)

- Next-generation internal structure optimization for easier handling and installation.
- Output power from 8 kW to 12 kW, meeting the needs of medium to large residential energy storage systems.
- Supports up to 20 kW PV input with 3 independent MPPTs for enhanced energy generation efficiency.
- Up to 270 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	GEN PRO-LB-EU 8K		GEN PRO-LB-EU 10K	GEN PRO-LB-EU 12K
Input (PV DC)				
Max. PV input power (W)	16000		20000	
Rated PV input voltage (V)	360			
Number of independent MPPT inputs	3 / (1:1:1)			
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)	48 ~ 60			
Max. charge / discharge current (A)	180	230	270	
Max. charge / discharge power (W)	8000	10000	12000	
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)	34.7	43.5	52	
Rated AC output power (W)	8000	10000	12000	
Max. AC input current (A)	100			
Max. AC input power (W)	23000			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	< 3%			
Max continuous AC passthrough current (A)	100			
GEN				
Rated GEN voltage (V)	230			
Rated GEN frequency (Hz)	50 / 60			
Rated GEN input current (A)	80			
Rated GEN input power (W)	18400			
UPS				
Rated output power (W)	8000	10000	12000	
Rated output voltage (V)	230			
Rated output current (A)	34.7	43.5	52	
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 1s			
Switching time	7ms			
Wave form	Sine wave			
THDV	< 3%			
Efficiency				
MPPT efficiency	99.9%			
Max. efficiency	97.3%			
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)	417 × 615.5 × 229.5 mm / 16.42 × 24.23 × 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	Smart cooling			
Topology on AC / Battery side	Transformer			
Max. Operating Altitude (m)	2000, > 2000 Derating			
Noise emission (dB)	50			
Standard & Certification				
EN62109-1/-2, EN61000, EN50549-1/-10, UNE27001/UNE27002, G99, G100				