

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 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)	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						