

HYBRID SERIES

GEN2-LB-EU 7-14K (Single-Phase)

- 3 MPPTs with 4 strings, Max. PV input 18kW
- Max. charging and discharging current: 250A
- Supports up to 10pcs in parallel for on/off grid
- AI-Driven optimization mode for e-bill reduction
- 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	GEN2-LB-EU 7K		GEN2-LB-BR 7.5K	GEN2-LB-EU 8K	GEN2-LB-EU 10K	GEN2-LB-EU 12K	GEN2-LB-EU 14K
Input (PV DC)							
Max. PV input power (W)	12000			15000		18000	
Rated PV input voltage (V)	340						
Number of independent MPPT inputs	3 / (1:1:1)						
Max. PV input voltage (V)	550						
MPPT voltage range (V)	120 ~ 440						
Start-up voltage (V)	100						
Max. PV input current per MPPT (A)	26 / 15 / 15						
Max. PV short-circuit current input per MPPT (A)	31 / 18 / 18						
Battery							
Compatible battery type	Lithium-ion / Lead-Acid						
Rated battery voltage (V)	48						
Battery voltage range (V)	40 ~ 60						
Max. charge/discharge current (A)	147	157	187	210		250	
Max. charge/discharge power (W)	7000	7500	8000	10000		12000	
Force wake up battery from PV function	YES						
Grid							
Rated AC voltage (V)	230	220	230				
Rated AC frequency (Hz)	50 / 60						
Rated AC output current (A)	30.5	34.5	35	43.5		52	61
Rated AC output power (W)	7000	7500	8000	10000		12000	14000
Acceptable Input Voltage Range (V)	180 ~ 270						
Max. AC intput current (A)	80						
Max. AC intput power (W)	18000						
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)						
THDI	< 5%						
Max continuous AC passthrough current (A)	80						
GEN							
Rated GEN voltage (V)	230	220	230				
Rated GEN frequency (Hz)	50 / 60						
Rated GEN input current (A)	80						
Rated GEN input power (W)	18000						
UPS							
Rated output power (W)	7000@230V	7500@220V	8000@230V	10000@230V		12000@230V	
Rated output voltage (V)	230	220	230				
Rated output current (A)	30.5	34.5	35	43.5		52	
Rated output frequency (Hz)	50 / 60						
Surge power, duration	2 × rated power for 0.5s						
Switching time (UPS)	Single: 10ms / Parallel: 20ms						
Wave form	Sine wave						
THDV	< 3%						
Efficiency							
MPPT efficiency	99.9%						
Max. charge/discharge efficiency	95.0%						
Protection							
Over current/voltage protection	YES						
AC Short-circuit current protection	YES						
Grid monitoring	YES						
DC Switch	YES						
AC/DC Surge protection	Type III						
General							
Dimensions (W × H × D)	520 × 653 × 275 mm / 20.5 × 25.7 × 10.8 in						
Weight	47.5 kg / 104.7 lbs						
Ingress protection rating	IP66						
Relative humidity	0 ~ 100%						
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating						
Storage temperature range (°C)	-25 ~ 60						
Display & Communication interface	Touch color screen, RS485 / Wifi / CAN						
Warranty	5 / 10 years						
Cooling method	Smart cooling						
Topology on AC / Battery side	Transformer-less / Transformer						
Max. Operating Altitude (m)	2000						
Noise emission (dB)	55						
Standard & Certification							
PTPIREE TypeA. EN 62109-1/EN 61000							