

HYBRID SERIES

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

- 3 MPPTs with 3 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	167	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	34.1	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 input current (A)	80					
Max. AC input 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	34.1	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	Transformerless / Transformer					
Max. Operating Altitude (m)	2000					
Noise emission (dB)	55					
Standard & Certification						
PTPIREE TypeA, EN 62109-1/EN 61000						