

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)										
PV input voltage range(V)	100~550										
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 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	34.5	35	43.5	52						
Rated output frequency(Hz)	50/60										
Surge power, duration	1.1Pn/12min; 1.25Pn/6min; 1.35Pn/1min; 1.5Pn/1S; 2Pn/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*275mm / 20.5*25.7*10.8 in										
Weight	47.5kg / 104.7lbs										
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										
Altitude (m)	<2000										
Noise emission(typical)	<50dB										
Standard & Certification											
PTPIREE TypeA, EN 62109-1/EN 61000											