

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 7KGEN2-LB-BR 7.5KGEN2-LB-EU 8KGEN2-LB-EU 10KGEN2-LB-EU 12KGEN2-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						
Grid						
Rated AC voltage (V)	YES					
Rated AC frequency (Hz)	230	220	230			
Rated AC output current (A)	50 / 60					
Rated AC output power (W)	30.5	34.1	35	43.5	52	61
Acceptable Input Voltage Range (V)	7000	7500	8000	10000	12000	14000
Max. AC input current (A)	180 ~ 270					
Max. AC input power (W)	80					
PF	18000					
THDI	0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
Max continuous AC passthrough current (A)	< 5%					
GEN						
Rated GEN voltage (V)	80					
Rated GEN frequency (Hz)						
Rated GEN input current (A)	230	220	230			
Rated GEN input power (W)	50 / 60					
UPS						
Rated output power (W)	80					
Rated output voltage (V)	18000					
Rated output current (A)						
Rated output frequency (Hz)	7000@230V	7500@220V	8000@230V	10000@230V	12000@230V	
Surge power, duration	230	220	230			
Switching time (UPS)	30.5	34.1	35	43.5	52	
Wave form	50 / 60					
THDV	2 × rated power for 0.5s					
Efficiency						
MPPT efficiency	Single: 10ms / Parallel: 20ms					
Max. charge/discharge efficiency	Sine wave					
	< 3%					
Protection						
Over current / voltage protection	99.9%					
AC Short-circuit current protection	95.0%					
Grid monitoring						
DC Switch	YES					
AC / DC Surge protection	YES					
General						
Dimensions (W × H × D)	YES					
Weight	YES					
Ingress protection rating	Type III					
Relative humidity						
Operating environment temperature range (°C)	520 × 653 × 275 mm / 20.5 × 25.7 × 10.8 in					
Storage temperature range (°C)	47.5 kg / 104.7 lbs					
Display & Communication interface	IP66					
Warranty	0 ~ 100%					
Cooling method	-25 ~ 60 °C , > 45 °C Derating					
Topology on AC / Battery side	-25 ~ 60					
Max. Operating Altitude (m)	Touch color screen, RS485 / Wifi / CAN					
Noise emission (dB)	5 / 10 years					
Standard & Certification						
PTPIREE TypeA, EN 62109-1/EN 61000, G100/G99	Smart cooling					
	Transformerless / Transformer					
	2000					
	55					