

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) | 100 | | | | | |
| 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) | 100 | | | | | |
| 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, G100/G99 | | | | | | |