

HYBRID SERIES

GEN3-LB-EU 6-8K (Single-Phase)

- Next-generation internal structure optimization for easier handling and installation.
- Supports up to 12 kW PV input with 2 independent MPPTs for enhanced energy generation efficiency.
- Up to 180 A charge/discharge current to maximize battery potential.
- IP66 protection rating for reliable performance in outdoor environments.
- Built-in Type II AC/DC surge protection for enhanced system safety.



| Model | GEN3-LB-EU 6K | | GEN3-LB-EU 8K | |
|--|---|--|---------------|---------------|
| Input (PV DC) | | | | |
| Max. PV input power (W) | | | 12000 | |
| Rated PV input voltage (V) | | | 360 | |
| Number of independent MPPT inputs | | | 2 / (1:1) | |
| Max. PV input voltage (V) | | | 530 | |
| MPPT voltage range (V) | | | 150 ~ 425 | |
| Start-up voltage (V) | | | 140 | |
| Max. PV input current per MPPT (A) | | | 20 | |
| Max. PV short-circuit current input per MPPT (A) | | | 32 | |
| Battery | | | | |
| Compatible battery type | Lithium-ion / Lead-Acid | | | |
| Rated battery voltage (V) | 48 | | | |
| Battery voltage range (V) | 48 ~ 60 | | | |
| Max. charge / discharge current (A) | 125 | | | 180 |
| Max. charge / discharge power (W) | 6000 | | | 8000 |
| Force wake up battery from PV function | YES | | | |
| Grid | | | | |
| Rated AC voltage (V) | 230 | | | |
| Rated AC frequency (Hz) | 50 / 60 | | | |
| Rated AC output current (A) | 26 | | | 34.7 |
| Rated AC output power (W) | 6000 | | | 8000 |
| Max. AC input current (A) | 52 | | | |
| Max. AC input power (W) | 12000 | | | |
| PF | 0.99 (Adjustable from 0.8 leading to 0.8 lagging) | | | |
| THDI | < 3% | | | |
| Max continuous AC passthrough current (A) | 52 | | | |
| GEN | | | | |
| Rated GEN voltage (V) | 230 | | | |
| Rated GEN frequency (Hz) | 50 / 60 | | | |
| Rated GEN input current (A) | 52 | | | |
| Rated GEN input power (W) | 12000 | | | |
| UPS | | | | |
| Rated output power (W) | 6000 | | | 8000 |
| Rated output voltage (V) | 230 | | | |
| Rated output current (A) | 26 | | | 34.7 |
| Rated output frequency (Hz) | 50 / 60 | | | |
| Surge power, duration | 2 × rated power for 10s | | | |
| Switching time | 7ms | | | |
| Wave form | Sine wave | | | |
| THDV | < 5% | | | |
| Efficiency | | | | |
| MPPT efficiency | 99.9% | | | |
| Max. charge / discharge efficiency | 95.0% | | | |
| Protection | | | | |
| Over current / voltage protection | YES | | | |
| Anti-islanding protection | YES | | | |
| AC Short-circuit current protection | YES | | | |
| Leakage current protection | YES | | | |
| AFCI | Optional | | | |
| Ground fault monitoring | YES | | | |
| Grid monitoring | YES | | | |
| DC Switch | YES | | | |
| AC / DC Surge protection | Type II | | | |
| General | | | | |
| Dimensions (W × H × D) | TBD | | | |
| Weight | TBD | | | |
| Ingress protection rating | IP66 | | | |
| Relative humidity | 0 ~ 95% | | | |
| Operating environment temperature range (°C) | -25 ~ 60 °C , > 45 °C Derating | | | |
| Storage temperature range (°C) | -40 ~ 65 | | | |
| Display & Communication interface | LCD, RS485, Wifi, CAN | | | |
| Warranty | 5years | | | |
| Cooling method | Natural Cooling | | | Smart cooling |
| Topology on AC / Battery side | Transformer | | | |
| Max. Operating Altitude (m) | 2000, > 2000 Derating | | | |
| Noise emission (dB) | 30 | | | 50 |
| Standard & Certification | | | | |