

# GEN-LB-EU 7-10K (Single-Phase)

- 2 MPPTs, Max. PV input 15kW
- Max. charging and discharging current: 208A
- Supports up to 10pcs in parallel for on/off grid
- Time of use and weather optimization charge 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                                                                                     | GEN-LB-EU 7K                                      |         | GEN-LB-EU 8K | GEN-LB-EU 10K |
|-------------------------------------------------------------------------------------------|---------------------------------------------------|---------|--------------|---------------|
| Input (PV DC)                                                                             |                                                   |         |              |               |
| Max. PV input power (W)                                                                   | 12000                                             |         | 12000        | 15000         |
| Rated PV input voltage (V)                                                                | 360                                               |         |              |               |
| Number of independent MPPT inputs                                                         | 2 / (2: 2)                                        |         |              |               |
| Max. PV input voltage (V)                                                                 | 600                                               |         |              |               |
| MPPT voltage range (V)                                                                    | 120 ~ 550                                         |         |              |               |
| Start-up voltage (V)                                                                      | 140                                               |         |              |               |
| Max. PV input current per MPPT (A)                                                        | 25 / 25                                           |         |              |               |
| Max. PV short-circuit current input per MPPT (A)                                          | 34 / 34                                           |         |              |               |
| Battery                                                                                   |                                                   |         |              |               |
| Compatible battery type                                                                   | Lithium-ion / Lead-Acid                           |         |              |               |
| Rated battery voltage (V)                                                                 | 40 <sup>48</sup> 60                               |         |              |               |
| Battery voltage range (V)                                                                 | 40~60                                             |         |              |               |
| Max. charge/discharge current (A)                                                         | 146                                               | 167     | 208          |               |
| Max. charge/discharge power (W)                                                           | 7000                                              | 8000    | 10000        |               |
| 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)                                                               | 30.4                                              | 34.8    | 43.8         |               |
| Rated AC output power (W)                                                                 | 7000                                              | 8000    | 10000        |               |
| Max. AC input power (W)                                                                   |                                                   |         |              |               |
| PF                                                                                        | 15000                                             |         |              |               |
| THDI                                                                                      | 0.99 (Adjustable from 0.8 leading to 0.8 lagging) |         |              |               |
| Max. continuous AC passthrough current (A)                                                | < 3%                                              |         |              |               |
| GEN                                                                                       | 60                                                |         |              |               |
| Rated GEN voltage (V)                                                                     |                                                   |         |              |               |
| Rated GEN frequency (Hz)                                                                  | 230                                               |         |              |               |
| Rated GEN input current (A)                                                               | 50 / 60                                           |         |              |               |
| Rated GEN input power (W)                                                                 | 60                                                |         |              |               |
| UPS                                                                                       | 13800                                             |         |              |               |
| Rated output power (W)                                                                    |                                                   |         |              |               |
| Rated output voltage (V)                                                                  | 7000                                              | 8000    | 10000        |               |
| Rated output current (A)                                                                  |                                                   | 230     |              |               |
| Rated output frequency (Hz)                                                               | 30.4                                              | 34.8    | 4 3.8        |               |
| Surge power, duration                                                                     |                                                   | 50 / 60 |              |               |
| Switching time (UPS)                                                                      | 2 × rated power for 0.5s                          |         |              |               |
| Wave form                                                                                 | 20ms                                              |         |              |               |
| THDV                                                                                      | Sine wave                                         |         |              |               |
| Efficiency                                                                                | < 3%                                              |         |              |               |
| MPPT efficiency                                                                           |                                                   |         |              |               |
| EU efficiency                                                                             |                                                   |         |              |               |
| Max. efficiency                                                                           | 99.9%                                             |         |              |               |
| Max. charge/discharge efficiency                                                          | 94.3%                                             |         |              |               |
| Protection                                                                                | 97.5%                                             |         |              |               |
| PV reverse polarity protection                                                            | 94.0%                                             |         |              |               |
| Over current / voltage protection                                                         |                                                   |         |              |               |
| Anti-islanding protection                                                                 | YES                                               |         |              |               |
| AC Short-circuit current protection                                                       | YES                                               |         |              |               |
| Leakage current protection                                                                | YES                                               |         |              |               |
| Ground fault monitoring                                                                   | YES                                               |         |              |               |
| Grid monitoring                                                                           | YES                                               |         |              |               |
| DC Switch                                                                                 | YES                                               |         |              |               |
| AC / DC Surge protection                                                                  | YES                                               |         |              |               |
| General                                                                                   | YES                                               |         |              |               |
| Dimensions (W × H × D)                                                                    | Type III                                          |         |              |               |
| Weight                                                                                    |                                                   |         |              |               |
| Ingress protection rating                                                                 | 536×566×290 mm / 21.1 × 22.3 × 11.4 in            |         |              |               |
| Relative humidity                                                                         | 42.64 kg / 94 lbs                                 |         |              |               |
| Operating environment temperature range (°C)                                              | IP66                                              |         |              |               |
| Storage temperature range (°C)                                                            | 0 ~ 100%                                          |         |              |               |
| Display & Communication interface                                                         | -25 ~ 60                                          |         |              |               |
| Warranty                                                                                  | -25 ~ 60                                          |         |              |               |
| Cooling method                                                                            | Touch color screen, RS485 / Wifi / CAN            |         |              |               |
| Topology                                                                                  | 5 / 10 years                                      |         |              |               |
| Max. Operating Altitude (m)                                                               | Smart cooling                                     |         |              |               |
| Noise emission (dB)                                                                       | Transformerless                                   |         |              |               |
| Standard & Certification                                                                  |                                                   |         |              |               |
| G99, G100, NRS 097, EN/IEC 62109-1/2, IEC 61683, EN 61000, EN 62920, IE C62116, IEC 61727 | 2000                                              |         |              |               |
|                                                                                           | 50                                                |         |              |               |