

## HYBRID SERIES

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

- 2 MPPTs, Max. PV input 15kW
- Max. charging and discharging current: 210A
- 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           |  |               |  |
| Max. PV short-circuit current input per MPPT (A) |                                                   |  | 34           |  |               |  |
| Battery                                          |                                                   |  |              |  |               |  |
| Compatible battery type                          | Lithium-ion / Lead-Acid                           |  |              |  |               |  |
| Rated battery voltage (V)                        |                                                   |  | 48           |  |               |  |
| 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)                          |                                                   |  | 15000        |  |               |  |
| PF                                               | 0.99 (Adjustable from 0.8 leading to 0.8 lagging) |  |              |  |               |  |
| THDI                                             |                                                   |  | < 3%         |  |               |  |
| Max. continuous AC passthrough current (A)       |                                                   |  | 60           |  |               |  |
| GEN                                              |                                                   |  |              |  |               |  |
| Rated GEN voltage (V)                            |                                                   |  | 230          |  |               |  |
| Rated GEN frequency (Hz)                         |                                                   |  | 50 / 60      |  |               |  |
| Rated GEN input current (A)                      |                                                   |  | 60           |  |               |  |
| Rated GEN input power (W)                        |                                                   |  | 13800        |  |               |  |
| UPS                                              |                                                   |  |              |  |               |  |
| Rated output power (W)                           | 7000                                              |  | 8000         |  | 10000         |  |
| Rated output voltage (V)                         |                                                   |  | 230          |  |               |  |
| Rated output current (A)                         | 30.4                                              |  | 34.8         |  | 43.8          |  |
| Rated output frequency (Hz)                      |                                                   |  | 50 / 60      |  |               |  |
| Surge power, duration                            | 2 × rated power for 0.5s                          |  |              |  |               |  |
| Switching time (UPS)                             |                                                   |  | 20 ms        |  |               |  |
| Wave form                                        |                                                   |  | Sine wave    |  |               |  |
| THDV                                             |                                                   |  | < 3%         |  |               |  |
| Efficiency                                       |                                                   |  |              |  |               |  |
| MPPT efficiency                                  |                                                   |  | 99.9%        |  |               |  |
| EU efficiency                                    |                                                   |  | 94.3%        |  |               |  |
| Max. efficiency                                  |                                                   |  | 97.5%        |  |               |  |
| Max. charge/discharge efficiency                 |                                                   |  | 94.0%        |  |               |  |
| Protection                                       |                                                   |  |              |  |               |  |
| PV reverse polarity protection                   |                                                   |  | YES          |  |               |  |
| Over current / voltage protection                |                                                   |  | YES          |  |               |  |
| 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                         |                                                   |  | Type III     |  |               |  |
| General                                          |                                                   |  |              |  |               |  |
| Dimensions (W × H × D)                           | 536 × 566 × 290 mm / 21.1 × 22.3 × 11.4 in        |  |              |  |               |  |
| Weight                                           | 42.64 kg / 94 lbs                                 |  |              |  |               |  |
| Ingress protection rating                        | IP66                                              |  |              |  |               |  |
| Relative humidity                                | 0 ~ 100%                                          |  |              |  |               |  |
| Operating environment temperature range (°C)     | -25 ~ 60                                          |  |              |  |               |  |
| Storage temperature range (°C)                   | -25 ~ 60                                          |  |              |  |               |  |
| Display & Communication interface                | Touch color screen, RS485 / Wifi / CAN            |  |              |  |               |  |
| Warranty                                         | 5 / 10 years                                      |  |              |  |               |  |
| Cooling method                                   | Smart cooling                                     |  |              |  |               |  |
| Topology                                         | Transformer-less                                  |  |              |  |               |  |
| Max. Operating Altitude (m)                      | 2000                                              |  |              |  |               |  |
| Noise emission (dB)                              | 50                                                |  |              |  |               |  |
| Standard & Certification                         |                                                   |  |              |  |               |  |