

# HYBRID SERIES

## Single-Phase

# GEN-LB-EU 3-6K

- 2 MPPTs, Max. PV input 9 kW,  
18A Max.PV input current per MPPT
- Max. charge and discharge current: 125/140A
- Support up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge  
for e-bill reduction
- On/off grid seamless switching
- 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



**Your Reliable  
Energy Solution  
Partner**

| INPUT (PV DC)                                          | 3K                                                | 3.6K  | 4K    | 4.6K    | 5K      | 6K      |
|--------------------------------------------------------|---------------------------------------------------|-------|-------|---------|---------|---------|
| Max. PV array power(W)                                 | 6600                                              | 6600  | 7000  | 9000    |         |         |
| Rated PV input voltage(V)                              |                                                   |       |       | 360     |         |         |
| Number of independent MPPT inputs                      |                                                   |       |       | 2/(1:1) |         |         |
| PV input voltage range(V)                              |                                                   |       |       | 100~530 |         |         |
| MPPT voltage range(V)                                  |                                                   |       |       | 150~425 |         |         |
| Start-up voltage(V)                                    |                                                   |       |       | 140     |         |         |
| Max. PV input current per MPPT(A)                      |                                                   |       |       | 18      |         |         |
| 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)                               | 40~60                                             |       |       |         |         |         |
| Max. charge/discharge current(A)                       | 80/80                                             | 80/80 | 80/80 | 96/96   | 105/120 | 125/140 |
| Max. charge/discharge power(W)                         | 3000                                              | 3600  | 4000  | 4600    | 5000    | 6000    |
| 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)                             | 13                                                | 15.7  | 17.4  | 20      | 21.7    | 26      |
| Rated AC output power(W)                               | 3000                                              | 3600  | 4000  | 4600    | 5000    | 6000    |
| 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)              | 52.2                                              |       |       |         |         |         |
| UPS                                                    |                                                   |       |       |         |         |         |
| Rated output power(W)                                  | 3000                                              | 3600  | 4000  | 4600    | 5000    | 6000    |
| Rated output voltage(V)                                | 230                                               |       |       |         |         |         |
| Rated output current(A)                                | 13                                                | 15.7  | 17.4  | 20      | 21.7    | 26      |
| Rated output frequency(Hz)                             | 50/60                                             |       |       |         |         |         |
| Surge power, duration                                  | 2Pn, 0.5s                                         |       |       |         |         |         |
| Switching time(UPS )                                   | 20ms                                              |       |       |         |         |         |
| Wave form                                              | sine wave                                         |       |       |         |         |         |
| THDV                                                   | < 5%                                              |       |       |         |         |         |
| Efficiency                                             |                                                   |       |       |         |         |         |
| MPPT efficiency                                        | 99.9%                                             |       |       |         |         |         |
| Max. efficiency                                        | 97.3%                                             |       |       |         |         |         |
| Max. charge efficiency                                 | 94.5%                                             |       |       |         |         |         |
| Max. discharge efficiency                              | 94.5%                                             |       |       |         |         |         |
| Protection                                             |                                                   |       |       |         |         |         |
| 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                                               |       |       |         |         |         |
| DC Surge protection Type III                           | YES                                               |       |       |         |         |         |
| AC Surge protection Type III                           | YES                                               |       |       |         |         |         |
| General                                                |                                                   |       |       |         |         |         |
| Dimensions(W*H*D)                                      | 487*455*211.7mm/19.2*17.9*8.3inch                 |       |       |         |         |         |
| Weight                                                 | 29kg/64lbs                                        |       |       |         |         |         |
| Ingress protection rating                              | IP65                                              |       |       |         |         |         |
| Operating environment temperature range(°C)            | -25~60                                            |       |       |         |         |         |
| Storage temperature range(°C)                          | -40~65                                            |       |       |         |         |         |
| Relative humidity                                      | 0~95%                                             |       |       |         |         |         |
| Display & Communication interface                      | LCD+RGB, RS485/Wi-Fi/CAN                          |       |       |         |         |         |
| Warranty                                               | 5 years                                           |       |       |         |         |         |
| Cooling method                                         | Smart cooling                                     |       |       |         |         |         |
| Topology on AC side                                    | Transformer-less                                  |       |       |         |         |         |
| Topology on Battery side                               | Transformer                                       |       |       |         |         |         |
| Altitude(m)                                            | 2000                                              |       |       |         |         |         |
| Noise emission(typical)                                | < 25                                              |       |       |         |         |         |
| DC connection(VP-D4/MC4(Optional))                     | MC4                                               |       |       |         |         |         |
| AC connector                                           | YES                                               |       |       |         |         |         |
| Standard & Certification                               |                                                   |       |       |         |         |         |
| G99, G100, CEI 0-21, RD 1699, NTS, UNE 217001, NRS 097 |                                                   |       |       |         |         |         |