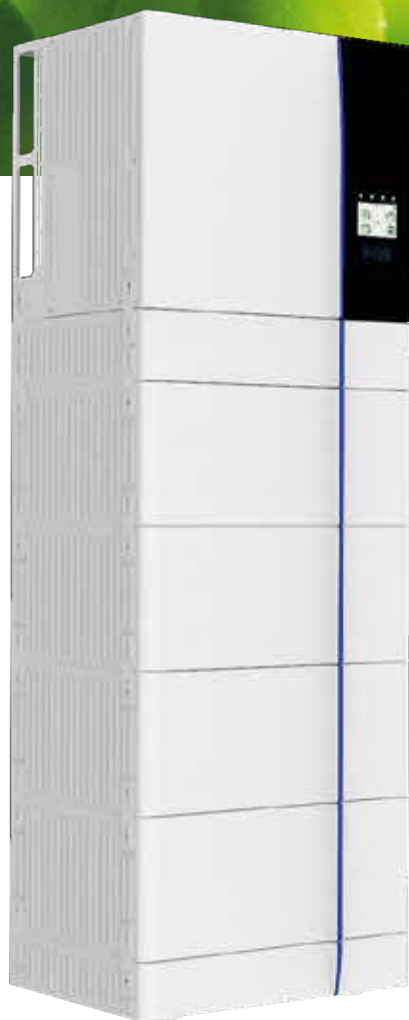


# GB-SL5K/6K/8K/10K/12K/15K/20K-EU



## ◆ ALL IN ONE

Integrated design, beautiful appearance and scene integration

## ◆ Maximum output

100% unbalanced output, each phase; Max. output up to 60% rated power

## ◆ Maximum connection

Max. 10pcs parallel for on-grid and off-grid operation;

## ◆ More support

Support storing energy from diesel generator

## ◆ High-voltage stack

Modules are connected in series without cable connection, and high-voltage platform improves system efficiency

## ◆ Thermal management

Temperature detection of key parts, cell, power plug-in, etc

## ◆ Wide temperature operation

The heating function is optional to meet the application scenarios with low temperature and no sense

# Technical Data

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| Model                                            | GB-S5K-EU                                                                                                                                                                                                                                                                                           | GB-S6K-EU      | GB-S8K-EU        | GB-S10K-EU       | GB-S12K-EU       | GB-S15K-EU       | GB-S20K-EU       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Battery Input Data                               |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Battery Type                                     | LI-ION                                                                                                                                                                                                                                                                                              |                |                  |                  |                  |                  |                  |
| Battery Voltage Range (V)                        | 160~700                                                                                                                                                                                                                                                                                             |                |                  |                  |                  |                  |                  |
| Max. Charging Current (A)                        | 30                                                                                                                                                                                                                                                                                                  | 37             |                  |                  |                  |                  |                  |
| Max. Discharging Current (A)                     | 30                                                                                                                                                                                                                                                                                                  | 37             |                  |                  |                  |                  |                  |
| Number of battery input                          | 1                                                                                                                                                                                                                                                                                                   |                |                  |                  |                  |                  |                  |
| Charging Strategy for Li-Ion Battery             | Self-adaption to BMS                                                                                                                                                                                                                                                                                |                |                  |                  |                  |                  |                  |
| PV String Input Data                             |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Max. DC Input Power (W)                          | 6500                                                                                                                                                                                                                                                                                                | 7800           | 10400            | 13000            | 15600            | 19500            | 26000            |
| Max. DC Input Voltage (V)                        | 1000                                                                                                                                                                                                                                                                                                |                |                  |                  |                  |                  |                  |
| Start-up Voltage (V)                             | 150                                                                                                                                                                                                                                                                                                 |                |                  |                  |                  |                  |                  |
| MPPT Range (V)                                   | 150-850                                                                                                                                                                                                                                                                                             |                |                  |                  |                  |                  |                  |
| Full Load DC Voltage Range (V)                   | 195-850                                                                                                                                                                                                                                                                                             | 195-850        | 260-850          | 325-850          | 340-850          | 420-850          | 500-850          |
| Rated DC Input Voltage (V)                       | 600                                                                                                                                                                                                                                                                                                 |                |                  |                  |                  |                  |                  |
| PV Input Current (A)                             | 20+20                                                                                                                                                                                                                                                                                               |                |                  |                  | 26+20            |                  | 26+26            |
| Max. PV I <sub>sc</sub> (A)                      | 30+30                                                                                                                                                                                                                                                                                               |                |                  |                  | 39+30            |                  | 39+39            |
| No.of MPP Trackers                               | 2                                                                                                                                                                                                                                                                                                   |                |                  |                  |                  |                  |                  |
| No.of Strings per MPP Tracker                    | 1+1                                                                                                                                                                                                                                                                                                 |                |                  |                  | 2+1              |                  | 2+2              |
| AC Output Data                                   |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Rated AC Output and UPS Power (W)                | 5000                                                                                                                                                                                                                                                                                                | 6000           | 8000             | 10000            | 12000            | 15000            | 20000            |
| Max. AC Output Power (W)                         | 5500                                                                                                                                                                                                                                                                                                | 6600           | 8800             | 11000            | 13200            | 16500            | 22000            |
| AC Output Rated Current (A)                      | 7.6/7.3                                                                                                                                                                                                                                                                                             | 9.1/8.7        | 12.2/11.6        | 15.2/14.5        | 18.2/17.4        | 22.8/21.8        | 30.4/29          |
| Max.AC Output (Off-gird) Current(A)              | 8.4/8                                                                                                                                                                                                                                                                                               | 10/9.6         | 13.4/12.8        | 16.7/16          | 20/19.2          | 25/24            | 33.4/31.9        |
| Max. Three-phase Unbalanced Output Current(A)    | 13                                                                                                                                                                                                                                                                                                  | 13             | 18               | 22               | 25               | 30               | 35               |
| Max. Continuous AC Pass through (A)              | 40                                                                                                                                                                                                                                                                                                  |                |                  |                  | 80               |                  |                  |
| Peak Power (off grid)                            | 1.5 time of rated power, 10 S                                                                                                                                                                                                                                                                       |                |                  |                  |                  |                  |                  |
| Generator input/Smart load/AC couple current (A) | 7.6/40/7.6                                                                                                                                                                                                                                                                                          | 9.1 / 40 / 9.1 | 12.2 / 40 / 12.2 | 15.2 / 40 / 15.2 | 18.2 / 80 / 18.2 | 22.8 / 80 / 22.8 | 30.4 / 80 / 30.4 |
| Power Factor                                     | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                          |                |                  |                  |                  |                  |                  |
| Output Frequency and Voltage                     | 50/60Hz; 3L/N/PE 220/380, 230/400Vac                                                                                                                                                                                                                                                                |                |                  |                  |                  |                  |                  |
| Grid Type                                        | Three Phase                                                                                                                                                                                                                                                                                         |                |                  |                  |                  |                  |                  |
| DC injection current (mA)                        | <0.5%I <sub>n</sub>                                                                                                                                                                                                                                                                                 |                |                  |                  |                  |                  |                  |
| Efficiency                                       |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Max. Efficiency                                  | 97.6%                                                                                                                                                                                                                                                                                               |                |                  |                  |                  |                  |                  |
| Euro Efficiency                                  | 97%                                                                                                                                                                                                                                                                                                 |                |                  |                  |                  |                  |                  |
| MPPT Efficiency                                  | 99.9%                                                                                                                                                                                                                                                                                               |                |                  |                  |                  |                  |                  |
| Protection                                       |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Integrated                                       | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection, Arc Fault Circuit Interruption (AFCI optional) |                |                  |                  |                  |                  |                  |
| Output Over Voltage Protection                   | DC Type II/AC Type III                                                                                                                                                                                                                                                                              |                |                  |                  |                  |                  |                  |
| Certifications and Standards                     | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98,                                                                                                                                                                                                                                   |                |                  |                  |                  |                  |                  |
| Grid Regulation                                  | VDE 0126-1-1, RD 1699, C10-11                                                                                                                                                                                                                                                                       |                |                  |                  |                  |                  |                  |
| Safety EMC / Standard                            | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                              |                |                  |                  |                  |                  |                  |
| General Data                                     |                                                                                                                                                                                                                                                                                                     |                |                  |                  |                  |                  |                  |
| Operating Temperature Range (°C)                 | 40~60°C, >45°C derating                                                                                                                                                                                                                                                                             |                |                  |                  |                  |                  |                  |
| Cooling                                          | Free cooling                                                                                                                                                                                                                                                                                        |                | Smart cooling    |                  |                  |                  |                  |
| Communication with BMS                           | CAN                                                                                                                                                                                                                                                                                                 |                |                  |                  |                  |                  |                  |
| Warranty                                         | 5 years                                                                                                                                                                                                                                                                                             |                |                  |                  |                  |                  |                  |



NINGBO DEYE ESS TECHNOLOGY CO., LTD

NO. 18TH ZHENGLONG ROAD LONGHSAN CIXI NINGBO ZHEJAING 315311 P.R.CHINA

Tel: +86-0574-8622 9263 | E-mail: sales@deye.com.cn

| Model                                                                                                                 |         | GB-LM4.0                        |              |              |              |              |
|-----------------------------------------------------------------------------------------------------------------------|---------|---------------------------------|--------------|--------------|--------------|--------------|
| Battery System Data                                                                                                   |         |                                 |              |              |              |              |
| Cell Chemistry                                                                                                        |         | LiFePO4                         |              |              |              |              |
| Module Energy (kWh)                                                                                                   |         | 4.09                            |              |              |              |              |
| Module Nominal Voltage (V)                                                                                            |         | 102.4                           |              |              |              |              |
| Module Capacity (Ah)                                                                                                  |         | 40                              |              |              |              |              |
| Battery Module Qty in series.(Optional)                                                                               |         | 2                               | 3            | 4            | 5            | 6            |
| System Nominal Voltage (V)                                                                                            |         | 204.8                           | 307.2        | 409.6        | 512          | 614.4        |
| System Operating Voltage (V)                                                                                          |         | 179.2~691.2                     |              |              |              |              |
| System Energy (kWh)                                                                                                   |         | 8.18                            | 12.27        | 16.36        | 20.45        | 24.54        |
| System Usable Energy (kWh) <sup>1</sup>                                                                               |         | 7.36                            | 11.04        | 14.72        | 18.4         | 22.08        |
| <div>Charge/<br/>Discharge Current (A)</div> <div><div>2</div><div>recommend</div><div>max</div><div>peak</div></div> | 20      |                                 |              |              |              |              |
|                                                                                                                       | 40      |                                 |              |              |              |              |
|                                                                                                                       | 50@2min |                                 |              |              |              |              |
| Working Temperature(°C)                                                                                               |         | Charge: -20~55/Discharge:-20~60 |              |              |              |              |
| Communication Port                                                                                                    |         | CAN2.0/RS485                    |              |              |              |              |
| Thermal Management                                                                                                    |         | Natural Cooling                 |              |              |              |              |
| Recommend Depth of Discharge                                                                                          |         | 90%                             |              |              |              |              |
| Cycle Life                                                                                                            |         | 25±2°C, 0.5C/0.5C,70%EOL≥6000   |              |              |              |              |
| Warranty <sup>3</sup>                                                                                                 |         | 10 years                        |              |              |              |              |
| Certification                                                                                                         |         | CE/IEC 62619/VDE 2510-50/UN38.3 |              |              |              |              |
| Other Data                                                                                                            |         |                                 |              |              |              |              |
| Humidity                                                                                                              |         | 5~85%RH                         |              |              |              |              |
| Altitude (m)                                                                                                          |         | ≤2000                           |              |              |              |              |
| IP Rating of Enclosure                                                                                                |         | IP65                            |              |              |              |              |
| Noise (dB)                                                                                                            |         | <55                             |              |              |              |              |
| Storage Temperature (°C)                                                                                              |         | 0~35                            |              |              |              |              |
| Dimension (W/D/H,mm)                                                                                                  |         | 540*385*1100                    | 540*385*1320 | 540*385*1540 | 540*385*1760 | 540*385*1980 |
| Weight Approximate (kg)                                                                                               |         | 137                             | 176          | 215          | 254          | 293          |
| Installation Location                                                                                                 |         | Floor Mount                     |              |              |              |              |

- 1 DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- 2 The current is affected by temperature and SOC.
- 3 The warranty is due whichever reached first of warranty period or life cycle power.

| Model                                                                                                                                                                                                                                                                                  | Description                                                                                                                                                   |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GB-S5K/6K/8K/10K/12K/15K/20K-EU<br>Dimension (W/D/H)<br>Weight Approximate                                                                                                                                                                                                             | Hybrid inverter<br>540*385*450mm<br>39.8kg                                                                                                                    |    |
| GB-LB<br>Operating Voltage<br>Nominal Charge/Discharge Current<br>Max.Charge/Discharge Current<br>Operating Temperature Range<br>Ingress Protection<br>Dimension (W/D/H)<br>Weight Approximate                                                                                         | High voltage battery cluster control box<br>120 ~ 750Vdc<br>40A<br>50A<br>-20~65°C<br>IP65<br>540*385*110mm<br>12kg                                           |    |
| GB-LM4.0<br>Battery Type<br>Nominal Voltage<br>Rated Capacity<br>Rated Energy<br>Max. Charge/Discharge Current<br>Peak Charge/Discharge Current<br>Charge Temperature<br>Discharge Temperature<br>Storage Temperature<br>Ingress Protection<br>Dimension (W/D/H)<br>Weight Approximate | 4.09 kWh battery module<br>LiFePO4(LFP)<br>102.4Vdc<br>40Ah<br>4.09kWh<br>40A<br>50A<br>0~55°C<br>-20°C ~ 55°C<br>0°C ~ 35°C<br>IP65<br>540*385*220mm<br>39kg |   |
| GB-LBase<br>Dimension (W/D/H)<br>Weight Approximate                                                                                                                                                                                                                                    | Battery module base<br>540*385*100mm<br>7kg                                                                                                                   |  |