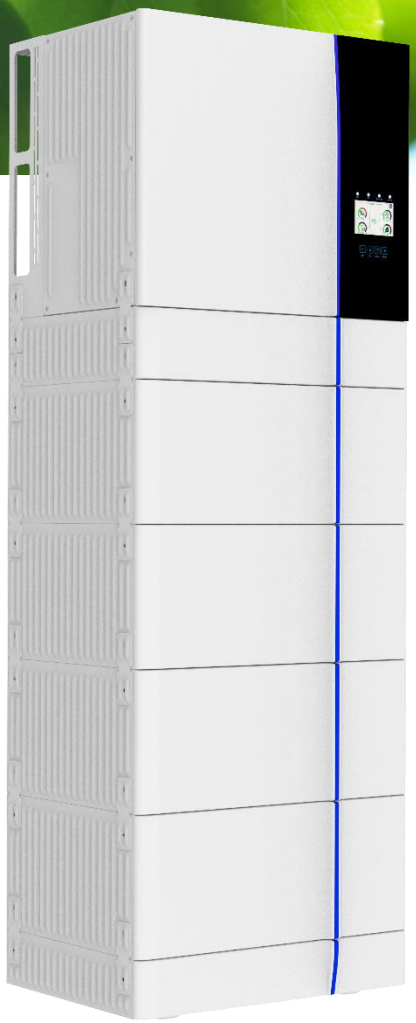
GB-SL5K/6K/8K/10K/12K/15K/20K-EU





- **ALL INONE**
  Integrated design,beautiful appearance and scene integration

- **Maximum output**
  100% unbalanced output, each phase; Max. output up to 50% 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

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Technical Data

www.deyeess.com

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)	37						
Max. Discharging Current (A)	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_{SC} (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)	7.3	8.7	11.6	14.5	17.4	21.8	29
Max. AC 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 / 40 / 18.2	22.8 / 40 / 22.8	30.3 / 40 / 30.3
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%In						
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						
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 (℃)	40~60℃, >45℃ derating						
Cooling	Smart cooling						
Communication with BMS	RS485; CAN						
Warranty	5 years						

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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

Technical Data

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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) [1]		7.36	11.04	14.72	18.4	22.08
$Charge/Discharge\ Current\ (A)$ [2]	recommend	20				
	max	40				
	peak	50@2min				
Working Temperature(℃)		Charge：-20~55/Discharge:-20~60				
Communication Port		CAN2.0/RS485				
Thermal Management		Natural Cooling				
Recommend Depth of Discharge		90%				
Cycle Life		25±2℃，0.5C/0.5C,70%EOL≥6000				
Warranty [3]		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 (℃)		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.

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System Components

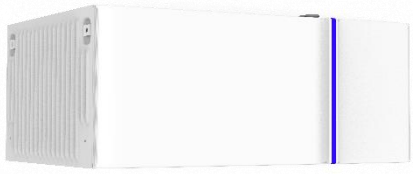
Model	Description
GB-S5K/6K/8K/10K/12K/15K/20K-EU	Hybrid inverter
Dimension (W/D/H)	540*385*450mm
Weight Approximate	39.8kg



GB-LB	High voltage battery cluster control box
Operating Voltage	120 ~ 750Vdc
Nominal Charge/Discharge Current	40A
Max.Charge/Discharge Current	50A
Operating Temperature Range	-20~65°C
Ingress Protection	IP65
Dimension (W/D/H)	540*385*110mm
Weight Approximate	12kg



GB-LM4.0	4.09 kWh battery module
Battery Type	LiFePO4(LFP)
Nominal Voltage	102.4Vdc
Rated Capacity	40Ah
Rated Energy	4.09kWh
Max. Charge/Discharge Current	40A
Peak Charge/Discharge Current	50A
Charge Temperature	0~55°C
Discharge Temperature	-20℃ ~ 55°C
Storage Temperature	0℃ ~ 35°C
Ingress Protection	IP65
Dimension (W/D/H)	540*385*220mm
Weight Approximate	39kg



GB-LBase	Battery module base
Dimension (W/D/H)	540*385*100mm
Weight Approximate	7kg

