



RESIDENTIAL ESS SOLUTION

GB-SL Pro 5K/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. 10 pcs 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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Model	GB-S 5K-EU	GB-S 6K-EU	GB-S 8K-EU	GB-S 10K-EU	GB-S 12K-EU	GB-S 15K-EU	GB-S 20K-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 ISC (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	2.2 / 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%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 (°C)	-40 ~ 60°C, >45°C derating						
Cooling	Natural Cooling	Intelligent Air Cooling					
Communication with BMS	RS485; CAN						
Warranty	5 years						

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Model

GB-L-Pro-Pack-4.1-2

Battery System Data

Cell Chemistry	
Module Energy (kWh)	
Module Nominal Voltage (V)	
Module Capacity (Ah)	
Battery Module Qty in series. (Optional)	
System Nominal Voltage (V)	
System Operating Voltage (V)	
System Energy (kWh)	
System Usable Energy (kWh) ^[1]	
Charge / Discharge	recommend
Current ^[2]	max
	peak
Working Temperature (°C)	
Communication Port	
Thermal Management	
Recommend Depth of Discharge	
Cycle Life	
Warranty ^[3]	
Certification	
Other Data	
Humidity	
Altitude (m)	
IP Rating of Enclosure	
Noise (dB)	
Storage Temperature (°C)	
Dimension (W × D × H, mm)	
Weight Approximate (kg)	
Installation Location	

LiFePO ₄				
4				
102.4				
40				
2	3	4	5	6
204.8	307.2	409.6	512	614.4
166.4~700				
8	12	16	20	24
7.2	10.8	14.4	18	21.6
20				
40				
50@2min				
Charge : -20 ~ 55 / Discharge : -20 ~ 55				
CAN2.0 / RS485				
Natural Cooling				
90%				
25±2°C, 0.5C / 0.5C,70%EOL≥6000				
10 years				
CE / IEC 62619 / VDE 2510-50 / UN38.3				
5 ~ 85%RH				
≤2000				
IP65				
<55				
0 ~ 35				
540 × 385 × 1100	540 × 385 × 1320	540 × 385 × 1540	540 × 385 × 1760	540 × 385 × 1980
137	176	215	254	293
Floor Mount				

[1] DC Usable Energy, test conditions : 90% DOD, 0.3C 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.

System Components

Deye GB-SL Pro 5K/6K/8K/10K/12K/15K/20K-EU

Model

GB-S 5K/6K/8K/10K/12K/15K/20K-EU

Dimension (W × D × H)

Weight Approximate

Description

Hybrid inverter

540 × 385 × 450mm

39.8kg



GB-LB-Pro

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-L-Pro-Pack4.1-2

4 kWh battery module

Battery Type

LiFePO₄ (LFP)

Nominal Voltage

102.4Vdc

Rated Capacity

40Ah

Rated Energy

4kWh

Max. Charge/Discharge Current

40A

Peak Charge/Discharge Current

50A

Charge Temperature

-20°C ~ 55°C

Discharge Temperature

-20°C ~ 55°C

Storage Temperature

0°C ~ 35°C

Ingress Protection

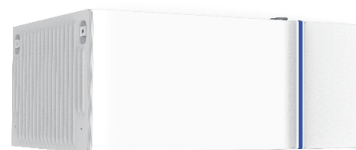
IP65

Dimension (W × D × H)

540 × 385 × 220mm

Weight Approximate

39kg



GB-L Base

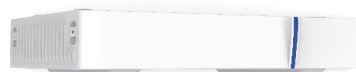
Battery module base

Dimension (W × D × H)

540 × 385 × 100mm

Weight Approximate

7kg



Deye ESS / Deye New Energy



www.deyeess.com / www.deyeinverter.com