

Deye Residential ESS Solution

Deye GB-L-PRO



◆ Safety

Built in explosion relief device to dredge gas, and built in fire protection device to cut off the fire source for 3 seconds.

◆ High-voltage stack

Modules are connected in series without cable connection, and highvoltage 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.

◆ Environmental friendliness

IP protection grade 65, anti-corrosion grade $\geq C2$, environmental protection battery.

◆ Intelligent and visual

Support remote upgrade, real-time battery warning information push, LCD data display.

Technical Data

Deye GB-L-PRO



Main Parameter

Cell Chemistry	LiFePO ₄				
Module model	GB-L-PACK 4.0				
Module Energy (kWh)	4				
Module Nominal Voltage (V)	102.4				
Module Capacity (Ah)	40				
Battery system model	GB-L8 PRO	GB-L12 PRO	GB-L16 PRO	GB-L20 PRO	GB-L24 PRO
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)	166.4 ~ 700				
System Energy (kWh)	8	12	16	20	24
System Usable Energy (kWh) ¹	7.2	10.8	14.4	18	21.6
Charge / Discharge ² Current (A)	Recommend				
	Nominal				
	Peak Discharge (2 mins, 25°C)				
Working Temperature (°C)	Charge : -10 ~ 55 / Discharge : -20 ~ 55				
LCD Display	SOC%, Power, Total Voltage				
Communication Port	CAN2.0, RS485				
Humidity	5% ~ 90%				
Altitude	≤2000m				
IP Rating of Enclosure	IP65				
Storage Temperature (°C)	0 ~ 35				
Dimension (W × D × H, mm)	540 × 385 × 650	540 × 385 × 870	540 × 385 × 1090	540 × 385 × 1310	540 × 385 × 1530
Weight (kg)	97	136	175	214	253
Installation Location	Floor Mount				
Recommend Depth of Discharge	0.9				
Cycle Life	25±2°C, 0.5C / 0.5C, EOL70%≥6000				
Warranty ³	10 years				
Certification	CE / IEC62619 / VDE 2510-50 / UN38.3				

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-L-PRO

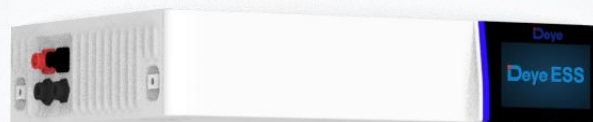
RW-LB-1

GB-LBS-PRO

High voltage battery cluster control box

Operating Voltage
Nominal Charge / Discharge Current
Max Charge / Discharge Current
Operating Temperature Range
Ingress Protection
Dimension (W × D × H)
Weight Approximate

120 ~ 750Vdc
40A
50A
-20 ~ 65°C
IP65
540 × 385 × 110mm
12kg



GB-LM4.0-PRO

4 kWh battery module

Battery Type
Nominal Voltage
Rated Capacity
Rated Energy
Nominal Charge/Discharge Current
Peak Discharge Current
Charge Temperature
Discharge Temperature
Storage Temperature
Ingress Protection
Dimension (W × D × H)
Weight Approximate

LiFePO₄ (LFP)
102.4Vdc
40Ah
4kWh
40A
50A
-20°C~55°C
-20°C~55°C
0°C~35°C
IP65
540 × 385 × 220mm
40.5kg



GB-LBase

Battery module base

Dimension (W × D × H)
Weight Approximate

540 × 385 × 100mm
7kg



ECOM Cable2.0

Standard 2-meter communication cable connected to the external device



EPCable2.0

Standard 2-meter power cable connected to the positive pole of the external PCS

1000V/6AWG Cable



ENCable2.0

Standard 2-meter power cable connected to the negative pole of the external PCS

1000V/6AWG Cable

