DEYE RESIDENTIAL ESS SOLUTION

GB-L-Pro

High-voltage Stack Design

Cable-free high-voltage stacking delivers higher efficiency and easier installation.

All-Round Safety

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

Built for Durability

IP65 protection, ≥C2 anti-corrosion design deliver long-term durability.

Thermal Management

Intelligent temperature sensing across core components ensures stable, reliable performance.

Wide Temperature Operation

Low-temperature battery cell enables reliable performance in environments below −20°C.

Smart & Visible Management

Real-time alerts, remote upgrades, and an intuitive LCD interface keep the system always under control.

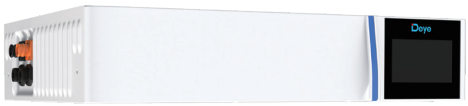
Technical Data

Model		GB-L8-Pro	GB-L12-Pro	GB-L16-Pro	GB-L20-Pro	GB-L24-Pro
Cell Chemistry		LiFePO4				
Module model		GB-L-Pro-Pack4.1-2				
Module Energy (kWh)		4				
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)		166.4~700.8				
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	20				
	Nominal	40				
	Peak Discharge (2 mins, 25°C)	50				
Working Temperature (°C)		Charge : -20 ~ 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		90%				
Cycle Life		25±2°C , 0.5C / 0.5C, EOL70%≥6000				
Warranty		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

GB-LBS-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-Pack-4.1-2	4 kWh battery module
Battery Type	LiFePO4 (LFP)
Nominal Voltage	102.4Vdc
Rated Capacity	40Ah
Rated Energy	4kWh
Nominal Charge/Discharge Current	40A
Peak 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

ECOM Cable 2.0	Standard 2-meter commumication cable connected to the external device

EP Cable 2.0	Standard 2-meter power cable connected to the positive pole of the external PCS
1000V/6AWG Cable	

EN Cable 2.0	Standard 2-meter power cable connected to the negative pole of the external PCS
1000V/6AWG Cable	

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