



NEPT G RESIDENTIAL ESS SOLUTION

GB-L Lite

Intelligent Management & Easy O&M

- **Pack + Cell Dual-Level Online Self-Balancing Technology**, expansion and battery replacement require no pre-configuration
- **Deye BMS+EMS** integrated control for real-time performance optimization
- **Bluetooth & Deye Cloud** , 24/7 monitoring & diagnostics

Superior Performance & Ultimate Safety

- **75A** Continuous Output, perfectly matched with Deye **10~50kW** HV inverters
- **IP66** protection, Stable Operation from **-20°C to 55°C**
- Cluster Temperature Difference **< 8°C** , ensuring longer battery cycle life
- **Pack-Level Pressure & Fire Protection, Cell & Connection Over-Temperature Protection**

High Integration & Easy Expansion

- Built on a **modular architecture**, with a cable-free stacking design
- **Higher energy density** maximizes vertical space utilization
- Each cluster delivers **17.28~80.64kWh** for residential & small C&I applications

New HV
ESS

5-Year
Warranty

≥6000
Cycle Life

Technical Data							
Model	GB-L17 Lite		GB-L23 Lite	GB-L28 Lite	GB-L34 Lite	GB-L40 Lite	GB-L46 Lite
Main parameter							
Cell Chemistry		LiFePO ₄					
Module model		GB-L-Pack5.76-C3					
Module Energy (kWh)		5.76					
Module Norminal Voltage (V)		57.6					
Module Capacity (Ah)		100					
Battery Module Qty In Series (Optional)		3	4	5	6	7	8
System Nominal Voltage (V)		172.8	230.4	288.0	345.6	403.2	460.8
System Operating Voltage (V)		135~197.1	180~262.8	225~328.5	270~394.2	315~459.9	360~525.6
System Normal Energy (kWh)		17.28	23.04	28.8	34.56	40.32	46.08
Charge Current (A) ^[1]	Max.Continuous	75					
	Peak	104(15s)					
Discharge Current (A) ^[1]	Max.Continuous	75					
	Peak	135(2min)					
Other Parameter							
Depth of Discharge		Recommended 90%,Max. adjustable 100%					
Dimension (W × D × H) (mm)		610x385x597	610x385x737	610x385x877	610x385x1017	610x385x1157	610x385x1297
Weight Approximate (kg)		171	220	269	318	367	416
Display		LCD					
Communication Port		CAN2.0, RS485, Bluetooth					
Cycle Life ^[2]		≥6000					
Working Temperature (°C)	Charge	0~55					
	Discharge	-20 ~ 55					
Warranty ^[3]		5 years					
Storage Temperature (°C)		0 ~ 35					
Fire Protection		Aerosol, Explosion venting					
Humidity		5%~95% RH,Non-Condensing					
Altitude (m)		≤3000					
IP Rating of Enclosure		IP66					
Scalability		Max.16 Modules in parallel					
Instalaton Location		Floor Mount					
Type of Cooling		Natural Cooling					
Certification		IEC 62619/UN38.3					

1. The current is affected by temperature and SOC.
2. 25°C±2°C, 0.5C, 90%DOD, 70%EOL.
3. Conditions apply, refer to Deye Warranty Letter.

Technical Data

Model		GB-L51 Lite	GB-L57 Lite	GB-L63 Lite	GB-L69 Lite	GB-L74 Lite	GB-L80 Lite
Main parameter							
Cell Chemistry		LiFePO ₄					
Module model		GB-L-Pack5.76-C3					
Module Energy (kWh)		5.76					
Module Norminal Voltage (V)		57.6					
Module Capacity (Ah)		100					
Battery Module Qty In Series （Optional）		9	10	11	12	13	14
System Nominal Voltage（ V ）		518.4	576	633.6	691.2	748.8	806.4
System Operating Voltage（ V ）		405~591.3	450~657	495~722.7	540~788.4	585~854.1	630~919.8
System Normal Energy (kWh)		51.84	57.6	63.36	69.12	74.88	80.64
Charge Current (A) ^[1]	Max.Continuous	75					
	Peak	104(15s)					
Discharge Current (A) ^[1]	Max.Continuous	75					
	Peak	135(2min)					
Other Parameter							
Depth of Discharge		Recommended: 90%, Max adjustable: 100%					
Dimension（ W × D × H ）（mm）		610x385x1437	610x385x1577	610x385x1717	610x385x1857	610x385x1997	610x385x2137
Weight Approximate （kg）		465	514	563	612	661	710
Display		LCD					
Communication Port		CAN2.0, RS485, Bluetooth					
Cycle Life ^[2]		≥6000					
Working Temperature（ °C ）	Charge	0~55					
	Discharge	-20 ~ 55					
Warranty ^[3]		5 years					
Storage Temperature（ °C ）		0 ~ 35					
Fire Protection		Aerosol, Explosion venting					
Humidity		5%-95% RH,Non-Condensing					
Altitude（ m）		≤3000					
IP Rating of Enclosure		IP66					
Scalability		Max.16 Modules in parallel					
Instalaton Location		Floor Mount					
Type of Cooling		Natural Cooling					
Certification		IEC 62619/UN38.3					

1. The current is affected by temperature and SOC.
2. 25℃±2℃, 0.5C, 90%DOD, 70%EOL.
3. Condintions apply , refer to Deye Warranty Letter.

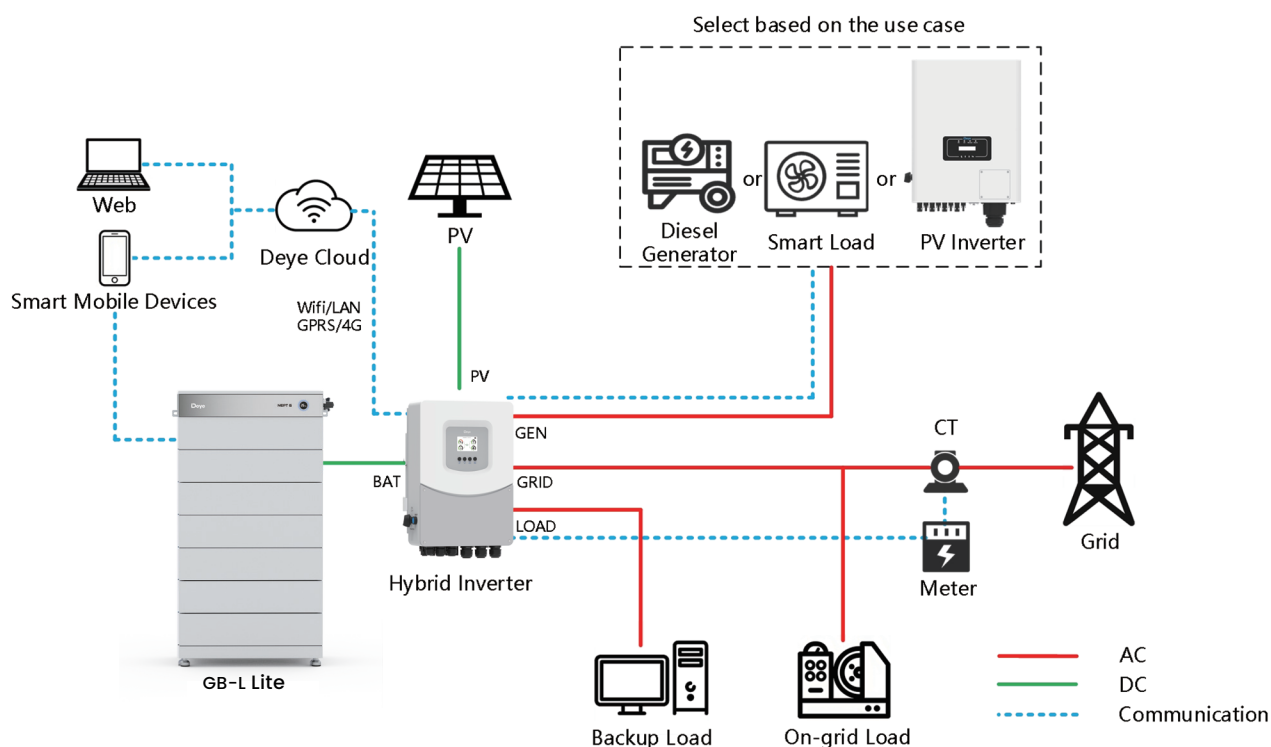
Three-Phase ESS Solution(Recommmend)

GB-L Lite Series
Battery

					
GB-L17 Lite	GB-L23 Lite	GB-L28 Lite	GB-L40 Lite	GB-L51 Lite	GB-L69 Lite
+	+	+	+	+	+
10kW(55A)	12kW(55A)	15kW(55A)	20kW(55A) 30kW(75A)	25kW(55A) 35kW(75A)	50kW(75A)
					

Power Unit	Battery Model	Specification
Standard Residential ESS		
SUN-10K-SG01HP3-EU-DM2	GB-L17 Lite	10kW/17.28kWh
SUN-12K-SG01HP3-EU-DM2	GB-L23 Lite	12kW/23.04kWh
SUN-15K-SG02HP3-EU-DM3	GB-L28 Lite	15kW/28.8kWh
SUN-20K-SG02HP3-EU-DM3	GB-L40 Lite	20kW/40.32kWh
Large Residential ESS		
SUN-25K-SG02HP3-EU-AM3	GB-L34 Lite	25kW/34.56kWh
SUN-25K-SG02HP3-EU-DM3	GB-L51 Lite	25kW/51.84kWh
SUN-30K-SG02HP3-EU-AM3	GB-L40 Lite	30kW/40.32kWh
SUN-35K-SG02HP3-EU-BM3	GB-L51 Lite	35kW/51.84kWh
SUN-40K-SG02HP3-EU-BM4	GB-L57 Lite	40kW/57.6kWh
Small C&I		
SUN-50K-SG02HP3-EU-BM4	GB-L69 Lite	50kW/69.12kWh
SUN-60K-SG02HP3-EU-EM6	GB-L80 Lite	60kW/80.64kWh
SUN-70K-SG02HP3-EU-EM6	GB-L51 Lite*2	70kW/103.68kWh
SUN-80K-SG02HP3-EU-EM6	GB-L57 Lite*2	80kW/115.2kWh
SUN-100K-SG02HP3-EU-EM10	GB-L69 Lite*2	100kW/138.24kWh

Typical Application Scenarios



System Components

GB-L-PDU-C

Operating Voltage (V)	100~1000
Max Charge / Discharge Current (A)	75
Operating Temperature Range (°C)	-20~55
Ingress Protection	IP66
Dimension (W × D × H) (mm)	610x385x110
Weight Approximate (kg)	15



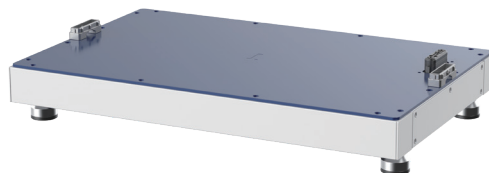
GB-L-Pack5.76-C3

Battery Type	LiFePO ₄
Nominal Voltage (V)	57.6
Rated Capacity (Ah)	100
Rated Energy (kWh)	5.76
Max Charge/Discharge Current (A)	75
Charge Temperature (°C)	0~55
Discharge Temperature (°C)	-20 ~ 55
Storage Temperature (°C)	0 ~ 35
Ingress Protection	IP66
Dimension (W × D × H) (mm)	610x385x140
Weight Approximate (kg)	49



GB-L-Base-A

Dimension (W × D × H) (mm)	610x385x67
Weight Approximate (kg)	9



Deye APP

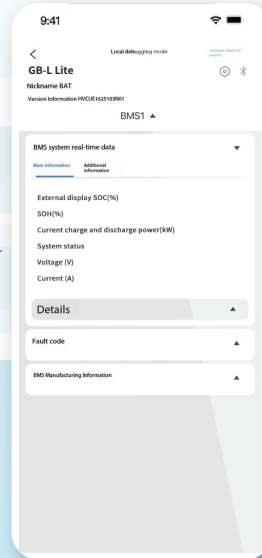
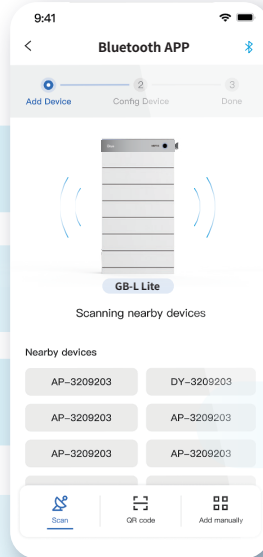
Bluetooth APP Monitoring

Low Power (Bluetooth LE)

Automated upgrade



Local monitoring mode for battery



Quick Pairing



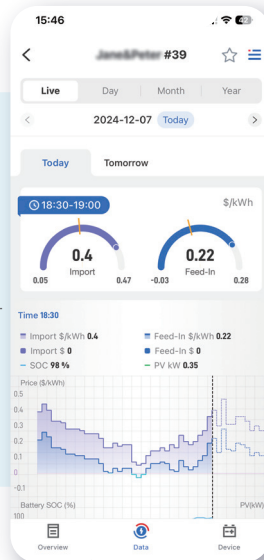
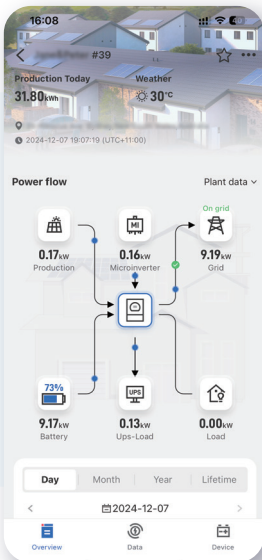
No Internet Needed



Portable Control



Remote monitoring mode for ESS(Inverter&Battery)



Real-time Equipment Monitoring



Intelligent Charging/Discharging Strategies



AI Data Analytics



Customized Maintenance

Smarten Up Your Home Energy



Download Deye APP to join us!

Embrace a seamless, effortless energy experience that's both ecofriendly and budget-friendly with our intelligent assistant





POWERING YOUR LIFE



www.deyeess.com / www.deyeinverter.com



Deye ESS / Deye New Energy