

NEPT G
RESIDENTIAL ESS SOLUTION

GB-L Lite

Intelligent Management & Easy O&M

- **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 Llife

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					
Charge Current (A)[1] Peak	104(15s)					
Disharge Current (A)[1] Max.Continuous	75					
Disharge Current (A)[1] Peak	135(2min)					
Other Parameter						
Depth of Discharge	Recommended 80%,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					
Working Temperature (°C) 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，70%EOL.
3. Condintions 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					
Charge Current (A)[1] Peak	104(15s)					
Disharge Current (A)[1] Max.Continuous	75					
Disharge Current (A)[1] Peak	135(2min)					
Other Parameter						
Depth of Discharge	Recommended: 80%, 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					
Working Temperature (°C) 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					

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Three-Phase ESS Solution(Recommdend)

GB-L Lite Series Battery



GB-L17 Lite



GB-L23 Lite



GB-L28 Lite



GB-L40 Lite



GB-L51 Lite



GB-L69 Lite

Three-Phase HV Hybrid Inverter

\+ 10kW(55A) Under development



\+ 12kW(55A) Under development



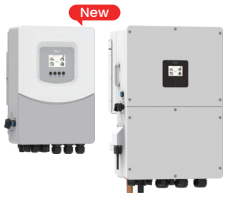
\+ 15kW(55A) New



\+ 20kW(55A) 30kW(75A) New



\+ 25kW(55A) 35kW(75A) New

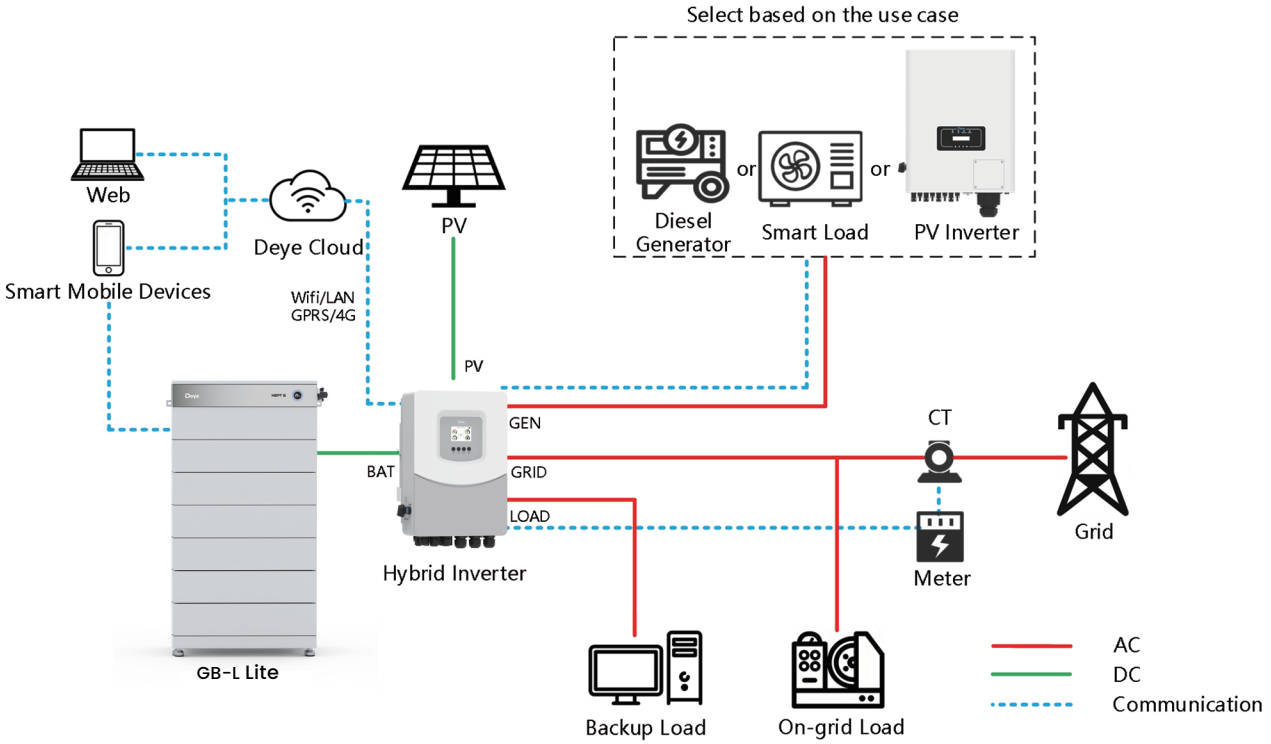


\+ 50kW(75A)



Power Unit	Battery Model	Specification
Standard Ressidential ESS		
SUN-10K-SG02HP3-EU-DM2	GB-L17 Lite	10kW/17.28kWh
SUN-12K-SG02HP3-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 Ressidential 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-GM10	GB-L69 Lite*2	100kW/138.24kWh

Typical Application Scenarios



System Components

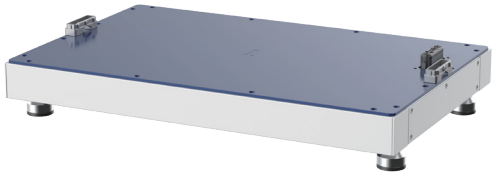
GB-L-PDU-C	
Operating Voltage （V）	100~1000
Max Charge / Discharge Current （A）	75
Operating Temperature Range （°C）	-20~55
Ingress Protection	IP66
Dimension (W × D × H) （mm）	610x385x110
Weight Approximate （kg）	15



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



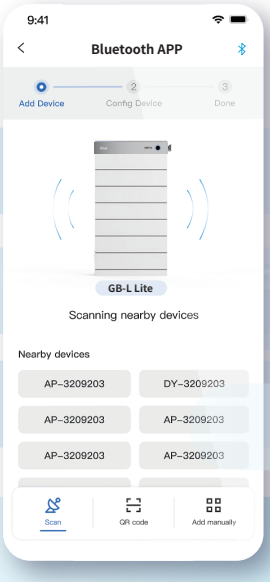
GB-L-Base-A	
Dimension (W × D × H) （mm）	610x385x67
Weight Approximate （kg）	9

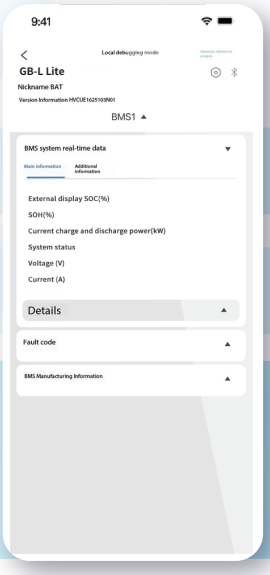


Deye APP

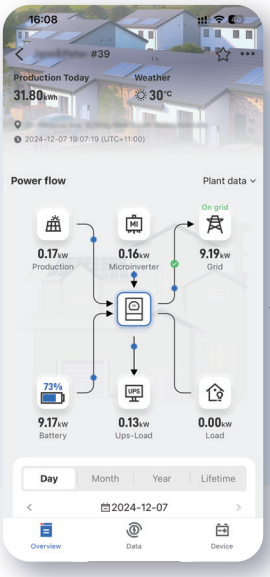
Local monitoring mode for battery

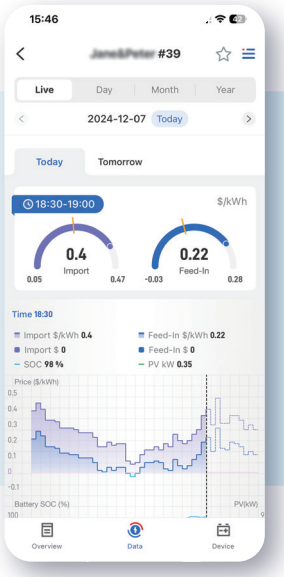
- Bluetooth APP Monitoring
- Low Power (Bluetooth LE)
- Automated upgrade
- Quick Pairing
- No Internet Needed
- Portable Control





Remote monitoring mode for ESS(Inverter&Battery)





- Real-time Equipment Monitoring
- Intelligent Charging/Discharging Strategies
- AI Data Analytics
- Customized Maintenance

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