

Summer Series

Residential ESS Solution

All-in-One ESS(HV)

GB-SL (EU)

Exceptional Performance

- All-in-One design
- Beautiful appearance and scene integration
- 100% unbalanced output, each phase
- Max. output up to 60% rated power

Smarter

- Temperature detection of key parts, cell, power plug-in, etc.
- Optional heating function for low-temperature applications

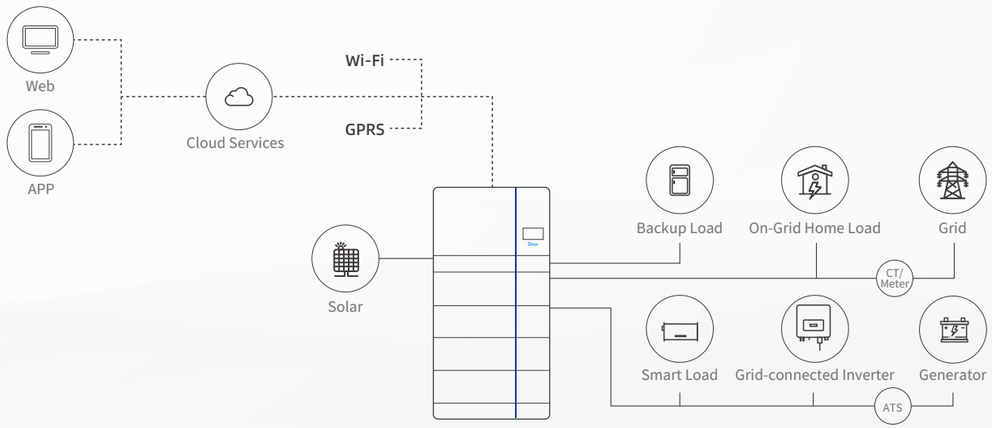
Enhanced Reliability

- ≥6000 Cycles, 70%EOL
- Wide temperature range: -20℃ ~ 60℃
- IP65-rated for indoor and outdoor use
- Support storing energy from diesel generator

More Flexible

- Max. 10 pcs parallel for on-grid and off-grid operation
- Modules are connected in series without cable connection, and high-voltage platform improves system efficiency

System Application Topology Diagram



*Floor-Mounted

GB-SL (EU)

Technical Data



Battery Technical Specification

Main Parameters						
Battery Type				$LiFePO_4$		
Battery Module Energy (kWh)				4.09		
Battery Module Nominal Voltage (V)				102.4		
Battery Module Capacity (Ah)				40		
Battery Module Qty in Series (Optional)		2	3	4	5	6
Scalability		204.8	307.2	409.6	512	614.4
System Operating Voltage (V)				179.2~691.2		
System Energy (kWh)		8.18	12.27	16.36	20.45	24.54
System Usable Energy (kWh)		7.36	11.04	14.72	18.4	22.08
Charge / Discharge Current (A) [2]	Recommend			20		
	Max.			40		
	Peak (25°C)			50@2min		
Other Parameters						
Operating Temperature (°C)				Charge : 0~55 / Discharge : -20~60		
Thermal Management				Natural Cooling		
Communication Port				CAN2.0 / RS485		
Humidity				5 ~ 85%RH		
Altitude				≤ 2000		
IP Rating of Enclosure				IP65		
Noise (dB)				< 55		
Module Dimension (W × H × D, mm)		540 × 385 × 1100	540 × 385 × 1320	540 × 385 × 1540	540 × 385 × 1760	540 × 385 × 1980
Module Weight Approximate (kg)		137	176	215	254	293
Installation Location				Floor-Mounted		
Recommend Depth of Discharge				90%		
Cycle Life				25 ±2°C, 0.5C / 0.5C, 70%EOL ≥ 6000		
Warranty Period				10 years		
Certification				CE / IEC 62619 / VDE 2510-50 / UN38.3		

Inverter Technical Specification

Inverter Model	GB-S5K	GB-S6K	GB-S8K	GB-S10K	GB-S12K	GB-S15K	GB-S20K
Efficiency							
Max. Efficiency				97.6%			
Euro Efficiency				97%			
MPPT Efficiency				99%			
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	Free cooling		Smart cooling				
Communication With BMS				RS485; CAN			
Warranty Period				5 years			

Inverter Technical Specification

Inverter Model	GB-S5K	GB-S6K	GB-S8K	GB-S10K	GB-S12K	GB-S15K	GB-S20K
Main Parameters							
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							
Start Up Dc Voltage (Vdc)				150			
Max. DC input Power (W)	6500	7800	10400	13000	15600	19500	26000
Max. Dc Input Voltage (V)				1000			
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
Number of MPP Trackers				2			
Number 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 times of rated power, 10s			
Generator input / Smart Load / AC Couple Current (A)	7.6 / 40 / 7.6	9.1 / 40 / 9.1	12.2 / 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			

*Floor-Mounted