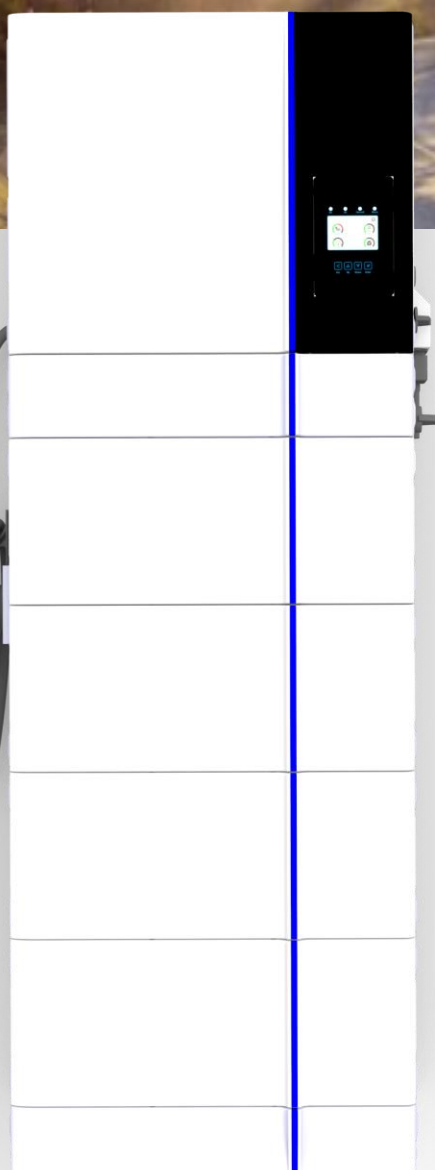


GB-SCL12/15/20K-EU



- ◆ **ALL IN ONE PLUS**
Solar storage charging system solution, one-stop service
- ◆ **Maximum output**
100% unbalanced output, each phase; Max. output up to 50% rated power
- ◆ **Maximum connection**
Max. 10pcs parallel for on-grid and off-grid operation
- ◆ **More support**
Support storing energy from diesel generator
- ◆ **High-voltage stack**
Modules are connected in series without cable connection, and high-voltage 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

Model	GB-S12K-EU	GB-S15K-EU	GB-S20K-EU
Battery Input Data			
Battery Type	LI-ION		
Battery Voltage Range (V)	160~700		
Max. Charging Current (A)	37		
Max. Discharging Current (A)	37		
Number of battery input	1		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	15600	19500	26000
Max. DC Input Voltage (V)	1000		
Start-up Voltage (V)	150		
MPPT Range (V)	150-850		
Full Load DC Voltage Range (V)	340-850	420-850	500-850
Rated DC Input Voltage (V)	600		
PV Input Current (A)	26+20		26+26
Max. PV I _{sc} (A)	39+30		39+39
No.of MPP Trackers	2		
No.of Strings per MPP Tracker	2+1		2+2
AC Output Data			
Rated AC Output and UPS Power (W)	12000	15000	20000
Max. AC Output Power (W)	13200	16500	22000
AC Output Rated Current (A)	17.4	21.8	29
Max. AC Current (A)	25	30	35
Max. Continuous AC Pass through (A)	80		
Peak Power (off grid)	1.5 time of rated power, 10 S		
Generator input/Smart load/AC couple current (A)	18.2 / 40 / 18.2	22.8 / 40 / 22.8	30.3 / 40 / 30.3
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%I _n		
Efficiency			
Max. Efficiency	97.6%		
Euro Efficiency	97%		
MPPT Efficiency	99.9%		
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	Smart cooling		
Communication with BMS	RS485; CAN		
Warranty	5 years		

Charger Data					
Rate Power (kw)	11				
Output Voltage Range (V)	400AC				
Output Current Range (A)	16A				
Communication Port	RS485				
Charging standard	Type2				
Standards/regulations	IEC61851-1				
Operating Temperature Range (°C)	-30~50				
Thermal Management	Natural Cooling				
Warranty	2 years				
Certification	CE/CB				
Model	GB-LM4.0				
Battery System Data					
Cell Chemistry	LiFePO4				
Module Energy (kWh)	4.09				
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)	179.2~691.2				
System Energy (kWh)	8.18	12.27	16.36	20.45	24.54
System Usable Energy (kWh) ¹	7.36	11.04	14.72	18.4	22.08
Charge/ Discharge Current (A)	recommend	20			
	max	40			
	peak	50@2min			
Working Temperature(°C)	Charge: 0~55/Discharge:-20~60				
Communication Port	CAN2.0/RS485				
Thermal Management	Natural Cooling				
Recommend Depth of Discharge	90%				
Cycle Life	25±2°C, 0.5C/0.5C,70%EOL≥6000				
Warranty ³	10 years				
Certification	CE/IEC 62619/VDE 2510-50/UN38.3				
Other Data					
Humidity	5~85%RH				
Altitude (m)	≤2000				
IP Rating of Enclosure	IP65				
Noise (dB)	<55				
Storage Temperature (°C)	0~35				
Dimension (W/D/H,mm)	540*385*1100	540*385*1320	540*385*1540	540*385*1760	540*385*1980
Weight Approximate (kg)	137	176	215	254	293
Installation Location	Floor Mount				

1 DC Usable Energy, test conditions: 90% DOD, 0.2C 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.