

GP-ST1-JK100

- ♦ Structural and electrical safety
- ♦ Ease of installation and maintenance
- ♦ Programmatic cell sorting for matched cells
- ♦ Compatibility with leading inverters
- ♦ Scalability up to 76.8kWh
- ♦ PC Software Monitoring & Debug
- ♦ Voltage/Current/Temperature Protection



GP-ST1-JK100

5.12kWh Module

51.2V Low Voltage System

The Gobel Power Battery GP-ST1-JK100 is a lithium iron phosphate (LFP) battery pack for use with an external inverter. A single Battery Module has about 5.12kWh capacity and can reach to 76.8kWh if 15 modules parallel connected.

Accessories GP-ST1-JK100

Parts	Quantity	Details
Battery Model	1	GP-ST1-JK100-M (Master)
Battery Model	0-14	GP-ST1-JK100-S (Slave)
RS485 Cable	1	Communication cable between BMS and PC software
Network Cable	1	Communication cable between BMS and Inverter
DC Power Cable	2	DC Power Cable connect between battery modules
Wheeled mobile base	1	movable platform

TECHNICAL PARAMETERS GP-ST1-JK100

Battery Module	GP-ST1-JK100			
Battery Cells	16S 100Ah Prismatic LiFePO4 Cells			
BMS	GP-JK100 BMS			
Active Balancer	2A Bluetooth Active Balancer			
Dimensions (H/W/D)	172.24 X 600 X 490 mm			
Weight	47 kg			
Number of Modules	1	2	5	6
Usable Energy [1]	5.12kWh	10.24kWh	25.60kWh	30.72kWh
Nominal Capacity	100Ah	200Ah	500Ah	600Ah
Max Cont. Output Current	100A	200A	300A	300A
Max Cont. Output Power	5.12kW	10.24kW	15.36kW	15.36kW
Max Cont. Input Current [2]	100A	200A	300A	300A
Max Cont. Input Power	5.12kW	10.24kW	15.36kW	15.36kW
Nominal Voltage	51.2 VDC			
Operating Voltage	44 ~ 56 V			
Operating Temperature	-20 °C to +55 °C			
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)			
Communication	CAN / RS485 / Bluetooth			
Monitor	/			
Active Balancer	2A			
Enclosure Protection Rating	IP21			
Round-Trip Efficiency	≥95%			
Scalability	Max. 15 Modules in Parallel (76.8 kWh) (6 Modules per Cluster)			
Applications	ON Grid / ON Grid + Backup / OFF Grid			
Warranty [3]	10 Years			
Compatible Inverters	Refer to Gobel Power Inverter Compatibility List			