

SBP4K8

Residential Energy Storage Battery



Innovative and Reliable

- High reliability and safety with prismatic cells from Samsung
- Cutting-edge bidirectional active cell balancing to prolong the battery lifetime effectively
- Robust BMS provides multi-protection at both cell level and system level
- Over 95% depth of discharge to maximise the usable capacity



Easy Installation

- Suitable for both free-standing and wall-mountable installation
- Simple setup for multiple batteries
- One-click online firmware update



Intelligent Management

- Remote monitoring of battery status with App and web portal
- Smart hibernation technology to maintain battery state of health



Data

Total energy capacity	4.84 kWh
Battery capacity	94 Ah
Nominal voltage	51.52 V
Battery type	Li-ion
Voltage range	44.8 V–58.1 V
Max. charge current	47 A
Max. discharge current	80 A
Round-trip efficiency (RTE)	> 95 %
Depth of discharge (DOD)	> 95 %
Cell balance technique	Bi-directional active cell balancing
Cell balance current	5 A
Scalability	Yes, up to 14.4 kWh
Over/under voltage protection	Yes
Over current protection	Yes
Over/under temperature protection	Yes
Short-circuit protection	Yes
DC fuse	Yes
Mounting type	Free-standing / wall-mountable
Weight	48 kg
Dimensions (W x H x D)	510 mm x 565 mm x 190 mm
Communication	CAN, RS485
Current consumption in sleep mode	< 30 μ A
Noise	< 30 dB
Ingress protection rating	IP55
Relative humidity range	0–85 %
Operating ambient temperature range	-10°C to 45°C
Storage temperature	-20°C to 50°C
Cooling strategy	Natural convection
Certification	UN38.3, IEC62619, IEC-61000-6-1/3

