

SOLUNA

POWER DESIGNED FOR NIGHT AND DAY


BES 5K Pack





TECHNICAL SPECIFICATIONS


PHYSICAL CHARACTERISTICS	
Dimensions (W*D*H)(mm)	420*155*580
Weight (kg)	48
Installation	Floor-stand / Wall-mounted
ELECTRICAL CHARACTERISTICS	
Battery type	LFP
Total Energy Capacity (kWh)	5.12
Nominal voltage (V)	51.2
Voltage range (usable) (V)	48 to 57.6
Max.Charge(A)	75
Discharge Current(A)	100
Depth of discharge (DoD)	90%
Internal resistance (mΩ)	≤60
Cycle life@ 25°C(under standard charge and discharge conditions)	≥8000
Battery pack round-trip efficiency	>95%
DC Disconnect	MOSFET / Fuse
BMS	
Power consumption	<3 W (working) <100 mW(sleeping)
Monitoring parameters	System voltage . System current . Cell voltage . Cell temperature
Communication	CAN . WI-FI . RS485
OPERATING CONDITIONS	
Operating temperature (°C)	-10 to 50
Operating temperature(recommended)(°C)	15 to 30
Storage temperature(recommended)(°C)	15 to 30
Humidity conditions	5 to 95%
Altitude(m)	Max.2,000
Cooling strategy	Natural convection
RELIABILITY AND CERTIFICATION	
Hazardous materials classification	Class 9
Certification	IEC62619 . EMC . ROHS
Transportation	UN38.3
Ingress protection rating	IP65
System configuration	1 to 16 parallel
WARRANTY	
Product and performance	10-year warranty


KEY FEATURES


 IP65

 Scalable to 81.92kWh

 Safest LiFePO4 battery

 Long lifespan

 Easy Installation

 Floor, Wall Mountable

Soluna BES 5K Pack is a low-voltage battery solution for residential energy storage, featuring advanced LiFePO4 technology with an integrated intelligent BMS and blackout protection for enhanced safety. It delivers **5.12 kWh** per unit and supports parallel installation up to 16 units (**81.92 kWh**). With a 10-year warranty and up to **8,000** cycles, it offers a flexible and high-performance storage solution.

