

Smart Battery Pack for Outdoor Installation



Smart City, Smart Agriculture, Smart Utility

SKU: SBP

✓ Safe Zone

○ Hazardous Zones

SMART BATTERY PACK 120AH SBP



The Smart Battery Pack (BP) is a compact, weather-resistant energy storage solution designed for outdoor use, IP67-rated and capable of withstanding wind speeds up to 200 km/h. It utilizes advanced LiFePO₄ cells, known for their superior safety, long cycle life, stable performance, and excellent thermal stability—making them ideal for high-reliability energy systems. The BP supports dual power inputs—18V solar panels and DC supply—ensuring consistent operation in remote or off-grid locations. Multiple units can be daisy-chained for higher capacity, and its ultra-low standby leakage current allows for efficient long-term storage. Equipped with LoRaWAN, Sigfox, or NB-IoT connectivity, it enables real-time remote monitoring via any IoT platform. Its streamlined, pole-mounted design minimizes visual impact, making it suitable for urban or rural deployment on utility poles or light posts, especially where grid power is unavailable.

Applications

Powering LoRaWAN gateway, IoT gateway, Camera

Notes For Applications

✓ Dual Power Input & Scalable Design

Supports simultaneous input from solar panels and DC power supply, with daisy-chain capability for expanded capacity in high-demand applications.

✓ Rugged & Weatherproof for Harsh Environments

Engineered to withstand wind speeds up to 200 km/h and operate reliably outdoors in remote or gridless locations.

✓ LiFePO₄ Battery Technology

Utilizes high-performance LiFePO₄ cells offering enhanced safety, long cycle life, thermal stability, and wide temperature range (-20°C to 60°C discharge).

✓ Seamless IoT Integration

Built-in connectivity options including LoRaWAN, Sigfox, or NB-IoT for real-time remote monitoring and management via any IoT platform.

SMART BATTERY PACK 120AH SBP



1 SOLAR + 1 DC INPUT
POWERING 2 LOADS

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Specification

Capacity	120AH x 12.8V (1536WH), 20AH x 12.8V (256WH). Connect multiple units to increase capacity.
Battery cells	High quality LiFePO4 cells
Power Inputs	2 independent inputs, 16-25V, max 150W in total
Max charging current	10A
Charging efficiency	96%
Charging temperature	0 .. + 45 oC
Discharging temperature	-20 .. + 60 oC
Power Input connectors	2 x M19 Male, 3-pin, allow daisy chain connection, come with 1m cable 12AWG and 1 pair of MC4 connector for Solar Panel connection
Battery cell balancing	Yes, passive type
Protection	over temperature, over voltage, under voltage, over load, over charging, over discharging...
Output	12 – 12.8V, max 20A each connector M19
Output connectors	2 x M19 Female , 3-pin, max 20A each, Allow daisy chain
Remote Monitoring	by LoRaWAN with internal antenna, or Sigfox, NBIoT.
Housing	Anodized Aluminum IP67
Ingress Protection	IP67
Dimension	150mm x 700mm for 120AH version, 150 x 250 mm for 20AH version
Net weight	20 kgs for 120AH version, 8 kgs for 20AH version

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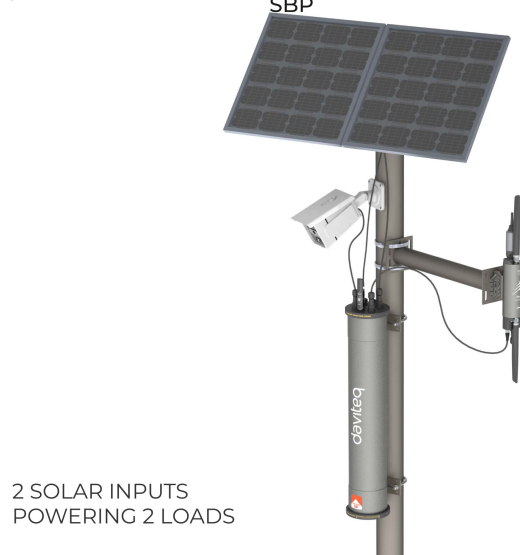
SMART BATTERY PACK 20AH SBP



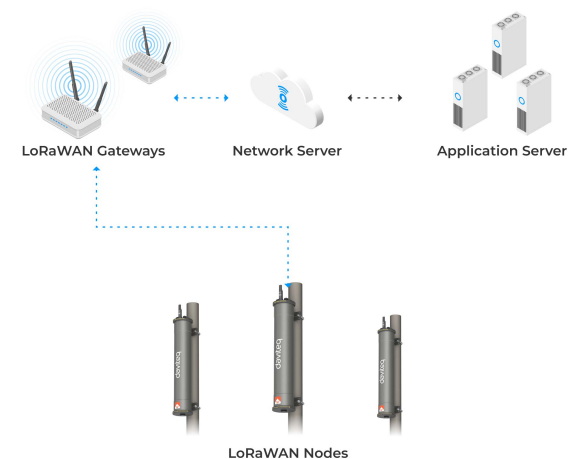
SMART BATTERY PACK 20AH SBP



SMART BATTERY PACK 120AH SBP

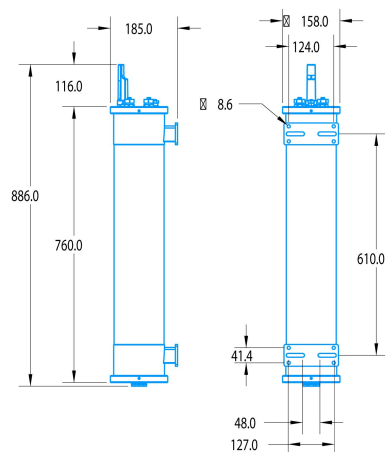


SMART BATTERY PACK 120AH SBP



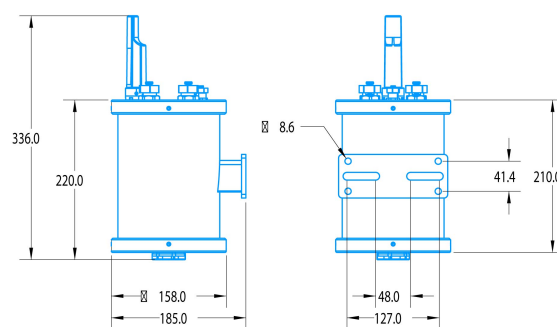
SYSTEM ARCHITECTURE

SMART BATTERY PACK 120AH SBP



DIMENSION DRAWING OF
WIRELESS NODE (Unit: mm)

SMART BATTERY PACK 20AH SBP



DIMENSION DRAWING OF
WIRELESS NODE (Unit: mm)

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Ordering Information

Item code	Descriptions
SBP-LRW-120-01	Smart Battery Pack with LoRaWAN connectivity, 12.8V x 120AH
SBP-LRW-20-01	Smart Battery Pack with LoRaWAN connectivity, 12.8V x 20AH