

PowerBank1mW

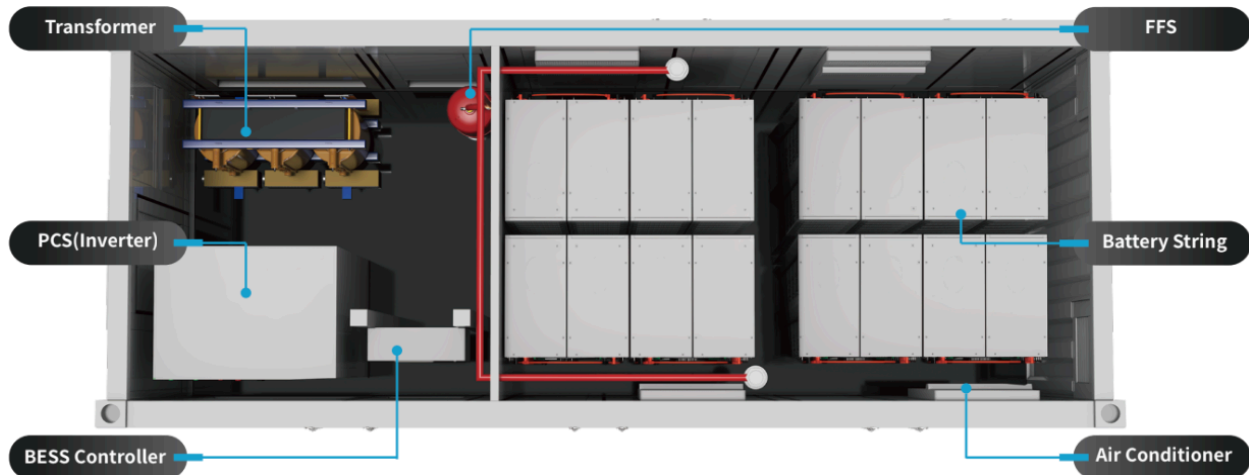
Product Overview



A high-performance, all-in-one, containerised battery energy storage system developed by R-Energy, provides C&I users with the intelligent and reliable solution to optimize energy efficiency and resilience. As the

leading BESS product, PowerBank430 is certificated by UL1973, UL9540A, IEC62619, CE , UN38.3, provides secure, reliable and safe power supply.

PowerBank1Mw, with a capacity of 1.1Mwh. Housed in a 20ft container, it is ideal where power is required, applications, such as a renewable energy power plant supplement, factories, buildings, etc. The integrated, easy-to-install BESS can be effortlessly connected and matched with the equipment, while the advanced BMS and or cloud-based operation platform brings a superior interaction experience for users.



DC Data		
Battery chemistry	Lithium Iron Phosphate (LFP)	
Cell life cycle	80% Retention with 5,000 Cycles @ 1C 25°C	
Cell spec	3.2V/90Ah	
String configuration	2P240S	
Number of strings	8	
Rated energy capacity	1.1MWh	
DC rated energy capacity	1,105.92kWh	
Rated voltage	768V	
Voltage range	672V-852V	
BMS communication interface	RS485, Ethernet	
BMS communication protocol	Modbus RTU, Modbus TCP	
AC Data		
Rated AC power	500kW	
Maximum AC power	550kW	
Rated voltage	480V	400V
Grid voltage range	432-528V(Configurable)	342-418V(Configurable)
AC rate of current	601.4A	721.7A
Output THDi	<3%	
AC PF	0.1-1 leading or lagging (Controllable)	
AC output	3-Phase 4-Wire, PE(with Transformer)	3-Phase 4-Wire, PE(with Transformer) 3-Phase 3-Wire, PE(without Transformer)
General Data		
Dimension w/o clearances (L*W*H)	6,058x2,438x2,591mm	
Weight of the whole system	21.0t	21.0t(with Transformer) 19.8t(without Transformer)
Degree of protection	IP54	
Operating temperature range	-10-40°C(Max. -20-50°C)	
Relative humidity	0-95% (non-condensing)	
Max working altitude	2,000m/6,500feet (non-derating)	
Cooling concept of DC hatch	Air cooling	
Fire fighting system	K-5-1-12(NOVEC1230)	
Communication interfaces	RS485, Ethernet	
Certificates	UL9540, UN3536	