

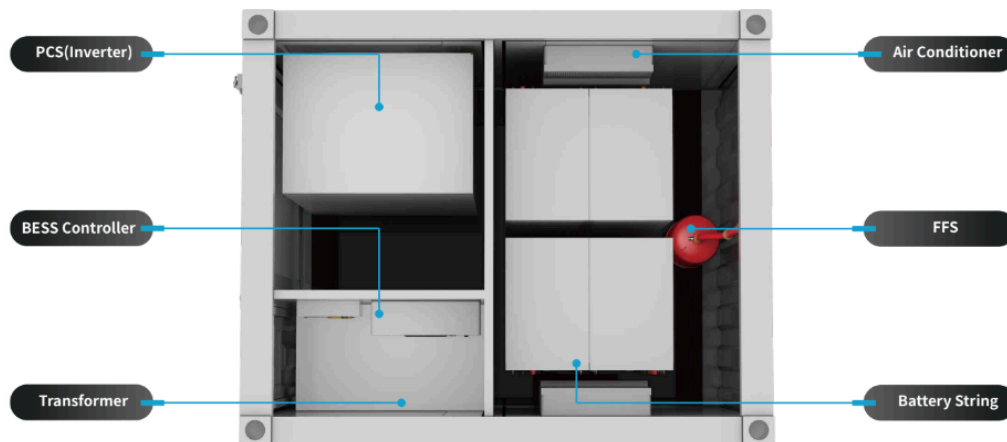
PowerBank430

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.

PowerBank430, with a capacity of 430kWh. Housed in a 10ft 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 @ 0.5C 25°C	
Cell spec	3.2V/280Ah	
String configuration	1P240S	
Number of strings	2	
Rated energy capacity	430kWh	
DC rated energy capacity	430.08kWh	
Rated voltage	768V	
Voltage range	672V-852V	
BMS communication interface	RS485, Ethernet	
BMS communication protocol	Modbus RTU, Modbus TCP	
AC Data		
Rated AC power	200kW	
Maximum AC power	250KW	
Rated voltage	480V	400V
Grid voltage range	423-528V	340-460V
AC rate of current	240.5A	288.6A
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)	2,991x2,438x2,591mm	
Weight of the whole system	8.4t	8.4t(with Transformer) 7.7t(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	