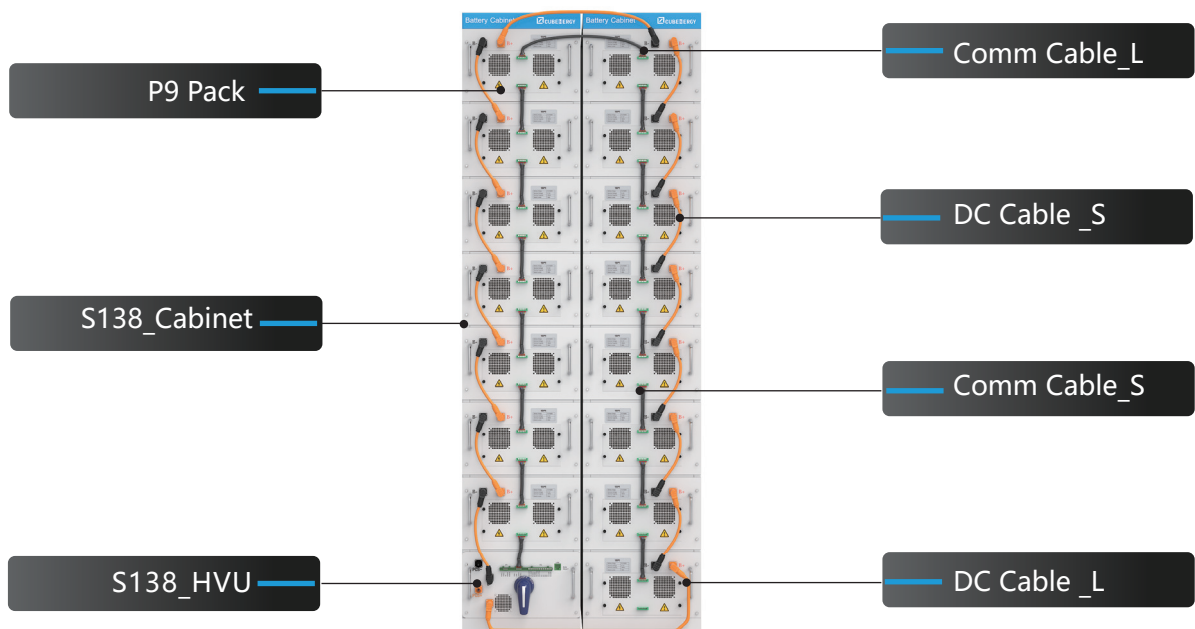
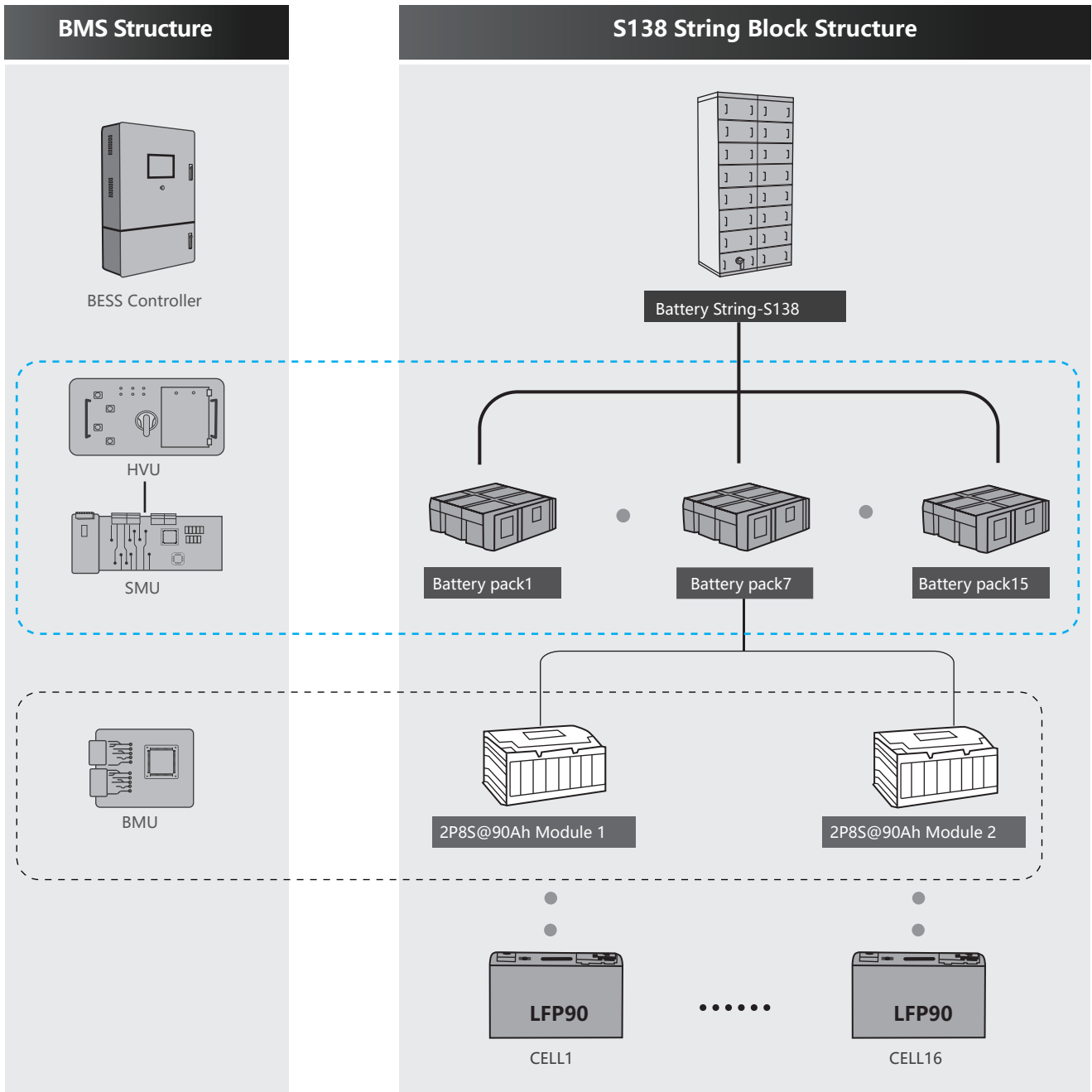




Battery String-S138

Cubenergy S138 Battery String is a reliable, long life cycle, modular, and scalable lithium iron phosphate (LFP) battery energy storage system (BESS) building block for commercial, industrial, microgrid and utility-scale applications.



Product Model Series

S138-#P9



Product Configuration

Product Model	P9 Pack (pcs)	Capacity (kWh)	Cabinet	High Voltage Unit	Direct Current Cable_Short	Direct Current Cable_Long	Communication Cable_Short	Communication Cable_Long
S138-6P9	6	55	1	1	6	1	5	1
S138-7P9	7	65	1	1	7	1	6	1
S138-8P9	8	74	2	1	7	2	6	2
S138-9P9	9	83	2	1	8	2	7	2
S138-10P9	10	92	2	1	9	2	8	2
S138-11P9	11	101	2	1	10	2	9	2
S138-12P9	12	111	2	1	11	2	10	2
S138-13P9	13	120	2	1	12	2	11	2
S138-14P9	14	129	2	1	13	2	12	2
S138-15P9	15	138	2	1	14	2	13	2

Key Components



Battery Pack-P9



Duct free design

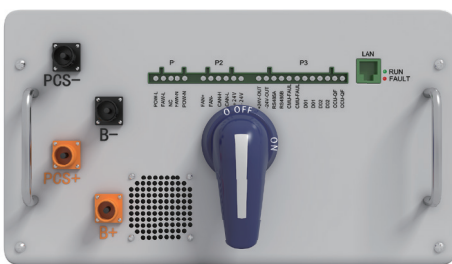


Active ventilation design



Life span $\geq 6,000$ cycles@0.5C 25°C

Item	Data
Capacity	9.2kWh
Rated voltage	51.2V
Discharge cut-off voltage	44.8V
Charge cut-off voltage	56.8V
Cycle life	$\geq 6,000$ cycles@0.5C 25°C
Voltage detection accuracy of battery cell	± 10 mV
Temperature detection accuracy of battery cell	± 2 °C
Balancing current of battery cell	≥ 150 mA
Range of voltage measurement for battery cell	1~5V
Battery balancing method	Passive balancing
Certifications	UL1973, IEC62619, UN38.3



Multistage protection



Rich interface



Dual-channel power supply

Item	Data
Circuit breaker	160A~250A
Hall sensor	300A
Leakage current	0~50mA
Fuse	250A
The error range of voltage detection	± 1 %
The error range of Current detection accuracy	± 1 %
Temperature detection accuracy	± 2 °C
Operating life	10 years
Certifications	UL1973



BESS Controller



Pre-engineered control strategy



Easy configuration



Cloud base data communication

Item	Data
Dimensions (L*W*H)	480*230*770mm
Weight	35.5kg
Power interface	AC 110/220V, 50/60Hz
PCS communication	TCP/RS485
HVU communication	TCP/IP
HVAC communication	RS485
Grid control application	Time shifting, peak shaving, renewables moving average
Offgrid control application	Backup power, PV/DG/EV/ESS integrated micro-grid control
Battery management system	DC busbar incoming control

□ Technical Specifications-General Information

Item	Data	Item	Data
Battery cell capacity	90Ah	String current sampling period	100ms
Rated cell voltage	3.2V	Maximum static power (15*P9)	110W
String maximum discharge rate	0.5C	String temperature detection accuracy	±2°C
System cycle life	≥5,000 cycles@0.5C, 25°C	String temperature sampling period	100ms
String measuring voltage range	100~1,000 V	SOC calculation accuracy	≤7%
String voltage detection accuracy	±0.5%	Input insulation resistance	≥10MΩ, 1,000V DC
String voltage sampling period	100ms	Insulation monitoring accuracy	1kΩ
String measuring current range	±300A	Communication	Ethernet, CAN, RS485
String current detection accuracy	≤1%	Certifications	UL 1973, IEC 62619, UN38.3, CE

□ Technical Specifications-Data Sheet

Item	Pack QTY	Nominal Capacity (kWh)	Rated Voltage (V)	Discharge Cut-off Voltage (V)	Charge Cut-off Voltage (V)	Weight (kg)	Dimensions (WDH mm)
S138-6P9	6	55	307	269	341	610	400*750*2,050
S138-7P9	7	65	358	314	398	690	400*750*2,050
S138-8P9	8	74	410	358	454	870	800*750*2,050
S138-9P9	9	83	461	403	511	950	800*750*2,050
S138-10P9	10	92	512	448	568	1,030	800*750*2,050
S138-11P9	11	101	563	493	625	1,110	800*750*2,050
S138-12P9	12	111	614	538	682	1,190	800*750*2,050
S138-13P9	13	120	666	582	738	1,270	800*750*2,050
S138-14P9	14	129	717	627	795	1,350	800*750*2,050
S138-15P9	15	138	768	672	852	1,430	800*750*2,050

NOTES

Product dimensions and physical appearance in this catalog are nominal and are provided for the convenience of our customers. Cubenergy reserves the right to make changes from time to time, without prior notification, which may change the dimensions and physical appearance shown.


We therefore recommend you to consult with a Cubenergy sales representative before its purchase.

2020 Shenzhen Cubenergy Co., Ltd



 www.cubenergy.com

 2F, Building 2, Tongchan New Materials Industrial Park, No. 28, Langshan Road, Nanshan District, Shenzhen

 Sales@cubenergy.com

 +86 0755-8652-0699