

BC55NPB

Outdoor battery cabinet with an IP54 protection level, inbuilt lithium-ion batteries, and the BMS.

Features



Flexible modular design



Self-developed 3-level BMS



Remote monitoring and upgrade



Long cycle Life, 6000 cycles

Note: At specific test condition.



Cell balancing method optional



Max 1C discharge



BC55NPB**Battery module specification**

Configuration	16S1P
Rated capacity	100Ah
Rated energy	5.12kWh
Rated voltage	51.2V
Voltage range	44.8-58.4V
Rated charge/discharge	0.5C
Max. charge/discharge	1C
AC internal resistance	≤5.6mΩ
Dimension (W/H/D)	446.5/168/640mm
Weight	45kg

Battery rack specification

Configuration	6 battery modules +1 BPU	7 battery modules +1 BPU	8 battery modules +1 BPU	9 battery modules +1 BPU	10 battery modules +1 BPU	11 battery modules +1 BPU
Rated capacity	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Rated energy	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh	56.3kWh
Rated voltage	307.2V	358.4V	409.6V	460.8V	512V	563V
Voltage range	268.8V-345.6V	313.6V-403.2V	358.4V-460.8V	403.2V-518.4V	448V-576V	492.8V-642.4V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C	1C
AC internal resistance	≤33.6mΩ	≤39.2mΩ	≤44.8mΩ	≤50.4mΩ	≤56mΩ	≤61.6mΩ
Display	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen
BMS	Included	Included	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m	3000m	3000m
Dimension (W/H/D) mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm
Weight	474kg	518kg	562kg	606kg	650kg	694kg
Protection degree	IP54	IP54	IP54	IP54	IP54	IP54

Balancing methods

Passive cell balancing	Yes
Active cell balancing	Opt

BMS parameters on LCD

Cell voltag	Yes
Cell high voltage	Yes
Battery SOC	Yes
Cell temperature	Yes
Charge and discharge current	Yes
Cell low voltage	Yes
Total battery voltage	Yes
Fault warning	Yes

Protection

Short circuit protection	Yes
Over current protection	Yes
Over charge protection	Yes
Over temperature protection	Yes
Cell over voltage protection	Yes
Cell under voltage protection	Yes
Over discharge protection	Yes

Certificate

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB

*Note: Active balancing is under development.