

BR128C/144C/160C/176C

Indoor battery rack with IP20 protection level, inbuilt lithium-ion battery and BMS.

Features



Flexible modular design



Self-developed 3-level BMS



Easy connection method for
A&B Module



Remote monitoring and upgrade



Long cycle Life, 6000 cycles



High density, 179wh/kg

Note: At specific test condition.



	BR128C	BR144C	BR160C	BR176C
Battery module specification				
Configuration	16S1P	16S1P	16S1P	16S1P
Rated capacity	314Ah	314Ah	314Ah	314Ah
Rated energy	16.076kWh	16.076kWh	16.076kWh	16.076kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Voltage range	44.8~57.6V	44.8~57.6V	44.8~57.6V	44.8~57.6V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	0.65C	0.65C	0.65C	0.65C
AC internal resistance	≤3.1mΩ	≤3.1mΩ	≤3.1mΩ	≤3.1mΩ
Dimension(W/H/D)	523/231/800mm	523/231/800mm	523/231/800mm	523/231/800mm
Weight	115kg	115kg	115kg	115kg

Battery rack specification				
Configuration	8 modules + 1 BPU	9 modules + 1 BPU	10 modules + 1 BPU	11 modules + 1 BPU
Rated capacity	314Ah	314Ah	280Ah	280Ah
Rated energy	128.608kWh	144.684kWh	160.76kWh	176.834kWh
Rated voltage	409.6V	460.8V	512V	563.2V
Voltage range	358.4~460.8V	403.2~518.4V	448~576V	492.8~633.6V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	0.65C	0.65C	0.65C	0.65C
AC internal resistance	≤24.8mΩ	≤27.9mΩ	≤31mΩ	≤34.1mΩ
Display	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen
BMS	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m
Dimension(W/H/D)mm	1055/1615/755(0.5C)	1055/1615/755(0.5C)	1055/1615/755(0.5C)	1055/1615/755(0.5C)
Weight	1080kg	1195kg	1310kg	1425kg
Protection degree	IP20	IP20	IP20	IP20

BMS parameters on LCD				
Cell voltage	Yes	Yes	Yes	Yes
Cell high voltage	Yes	Yes	Yes	Yes
Cell low voltage	Yes	Yes	Yes	Yes
Cell temperature	Yes	Yes	Yes	Yes
Charge and discharge current	Yes	Yes	Yes	Yes
Total battery voltage	Yes	Yes	Yes	Yes
Battery SOC	Yes	Yes	Yes	Yes
Fault warning	Yes	Yes	Yes	Yes

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

Certificate				
CB, UL, UN38.3, IEC62619, ROHS				