

BR114R/129R/143R/157R

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, 166wh/kg

Note: At specific test condition.



	BR114R	BR129R	BR143R	BR157R	BR114R for container
Battery module specification					
Configuration	16S1P	16S1P	16S1P	16S1P	16S1P
Rated capacity	280Ah	280Ah	280Ah	280Ah	280Ah
Rated energy	14.336kWh	14.336kWh	14.336kWh	14.336kWh	14.336kWh
Rated voltage	51.2V	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	44.8~57.6V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤8mΩ	≤8mΩ	≤8mΩ	≤8mΩ	≤8mΩ
Dimension(W/H/D)	523/231/805mm	523/231/805mm	523/231/805mm	523/231/805mm	523/231/805mm
Weight	113kg	113kg	113kg	113kg	113kg

Battery rack specification					
Configuration	8 modules + 1 BPU	9 modules + 1 BPU	10 modules + 1 BPU	11 modules + 1 BPU	8 modules + 1 BPU
Rated capacity	280Ah	280Ah	280Ah	280Ah	280Ah
Rated energy	114.688kWh	129.024kWh	143.36kWh	157.696kWh	114.688kWh
Rated voltage	409.6V	460.8V	512V	563.2V	409.6V
Voltage range	358.4~460.8V	403.2~518.4V	448~576V	492.8~633.6V	358.4~460.8V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤64mΩ	≤72mΩ	≤80mΩ	≤88mΩ	≤64mΩ
Display	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen
BMS	Included	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485
Max. altitude	3000m	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)	528/2380/755(0.5C)
	1090/1615/755(1C)	1090/1615/755(1C)	1090/1615/755(1C)	1090/1615/755(1C)	528/2380/755(1C)
Weight	1064kg	1157kg	1270kg	1383kg	999kg
Protection degree	IP20	IP20	IP20	IP20	IP20

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

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

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