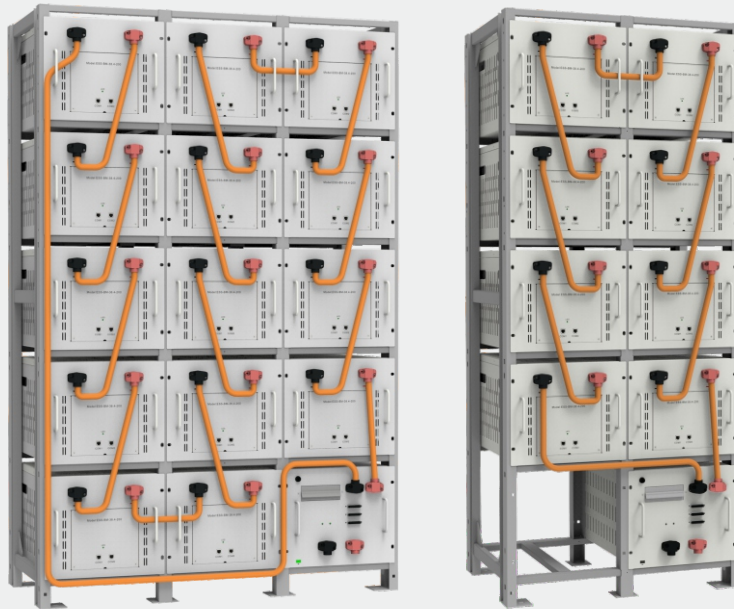


BR45T/50T/60T/75T BR100T/138T/145T



LEADING - EDGE TECHNOLOGY

Overview

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

Features



Easy installation and maintenance

Local and remote management, standard rack & module design, front maintenance



High density

LFP high-capacity Li-Ion battery with aluminum shell, over 130Wh/kg



Safety first

Self-developed 3-level BMS, complex protection, safe and reliable



Long lifespan

Long cycle life, 6000 cycles *



Cell balancing technology

Active cell balancing and passive cell balancing

Note: at specific test condition

Shenzhen ATESS Power Technology Co., Ltd

1st Floor of Building 3 at Sector B and 3rd Floor of Building 9, Henglong Industrial Park, No.4 Industrial Zone, Shuitian Community, Shiyan Street, Baoan District, Shenzhen

Datasheet

	BR45T	BR50T	BR60T	BR75T	BR100T	BR138T	BR145T
Battery module specification							
Configuration	24S1P	24S1P	24S1P	12S2P	12S2P	12S2P	12S2P
Rated capacity	100Ah	100Ah	100Ah	200Ah	200Ah	200Ah	200Ah
Rated energy	7.68kWh	7.68kWh	7.68kWh	7.68kWh	7.68kWh	7.68kWh	7.68kWh
Rated voltage	76.8V	76.8V	76.8V	38.4V	38.4V	38.4V	38.4V
Voltage range	67.2-87.6V	67.2-87.6V	67.2-87.6V	33.6~43.8V	33.6~43.8V	33.6~43.8V	33.6~43.8V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C	1C	1C
AC internal resistance	≤15mΩ	≤15mΩ	≤15mΩ	≤5mΩ	≤5mΩ	≤5mΩ	≤5mΩ
Dimension (W/H/D)mm	360/285/660	360/285/660	360/285/660	360/285/660	360/285/660	360/285/660	360/285/660
Weight	≤76kg	≤76kg	≤76kg	≤76.5kg	≤76.5kg	≤76.5kg	≤76.5kg

Battery rack specification							
Configuration	6 battery modules +1 BPU	7 battery modules +1 BPU	8 battery modules +1 BPU	10 battery modules +1 BPU	14 battery modules +1 BPU	18 battery modules +1 BPU	19 battery modules +1 BPU
Rated capacity	100Ah	100Ah	100Ah	200Ah	200Ah	200Ah	100Ah
Rated energy	46.08kWh	53.76kWh	61.44kWh	78.6kWh	107.52kWh	138.24kWh	145.92kWh
Rated voltage	460.8V	537.6V	614.4V	384V	537.6V	691.2V	729.6V
Voltage range	403.2V-525.6V	470.4V-613.2V	537.6V-700.8V	336V-438V	470.4V-613.2V	604.8V~766.8V	638.4V~832.2V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C	1C	1C
AC internal resistance	≤90mΩ	≤105mΩ	≤120mΩ	≤50mΩ	≤70mΩ	≤90mΩ	≤95mΩ
Display	7"Touch screen	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	Included
Communication	CAN	CAN	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485	RS485	RS485
Dimension (W/H/D)mm	752/1760/660	752/1760/660	752/1760/660	1119/1760/660	1119/1760/660	1504/1760/660	1504/1760/660
Weight	≤539kg	≤615kg	≤691kg	≤877kg	≤1183kg	≤1547kg	≤1623.5kg
Protection degree	IP20	IP20	IP20	IP20	IP20	IP20	IP20

Balancing methods							
Passive cell balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Active cell balancing	Opt	Opt	Opt	Opt	Opt	Opt	Opt

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

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

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