

# BC45T/50T/60T/75T/100T



## 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*

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# Datasheet

	BC45T	BC50T	BC60T	BC75T	BC100T
<b>Battery module specification</b>					
Configuration	24S1P	24S1P	24S1P	12S2P	12S2P
Rated capacity	100Ah	100Ah	100Ah	200Ah	200Ah
Rated energy	7.68kWh	7.68kWh	7.68kWh	7.68kWh	7.68kWh
Rated voltage	76.8V	76.8V	76.8V	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
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C
AC internal resistance	≤15mΩ	≤15mΩ	≤15mΩ	≤5mΩ	≤5mΩ
Dimension (W/H/D)mm	360/285/660	360/285/660	360/285/660	360/285/660	360/285/660
Weight	≤76kg	≤76kg	≤76kg	≤76.5kg	≤76.5kg

<b>Battery rack specification</b>					
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
Rated capacity	100Ah	100Ah	100Ah	200Ah	200Ah
Rated energy	46.08kWh	53.76kWh	61.44kWh	76.8kWh	107.52kWh
Rated voltage	460.8V	537.6V	614.4V	384V	537.6V
Voltage range	403.2V-525.6V	470.4V-613.2V	537.6V-700.8V	336V-438V	470.4V-613.2V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C
AC internal resistance	≤90mΩ	≤105mΩ	≤120mΩ	≤50mΩ	≤70mΩ
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
Dimension (W/H/D)mm	950/2150/1025	950/2150/1025	752/1760/660	1310/2150/1025	1310/2150/1025
Weight	≤716kg	≤792kg	≤868kg	≤1130kg	≤1436kg
Protection degree	Ip54	Ip54	Ip54	Ip54	Ip54

<b>Balancing methods</b>					
Passive cell balancing	Yes	Yes	Yes	Yes	Yes
Active cell balancing	Opt	Opt	Opt	Opt	Opt

<b>BMS parameters on LCD</b>					
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

<b>Protection</b>					
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, UL, UN38.3, IEC62619, MSDS, ROHS