

GENERAL SPECIFICATIONS

Nominal Voltage	12.8V
Maximum Charge	14.4V
Nominal Capacity	6Ah
Cell Chemistry	LiFePO ₄
Cell Cycle Life	>2,000
Parallel Cascade	Not Supported
Serial Cascade	Not Supported
LED Indicator	YES, Multi-color
Button	Multi-function

DISCHARGE

Cold Cranking Amps	650 peak
Peak Discharge Current	180A (20S)
Discharge Cut-Off	12.4V

CHARGE

Maximum Charge	60A
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OTHERS

Charge Temperature	0~45°C
Discharge Temperature	-20~65°C
Standby Current	<30mA
Sleep Current	<30μA
Self-discharge	~3.5%

Dimension (L*W*H)	150*65*93mm
Weight	1.1kg
Case Flame Class	UL94 V-0
Design Compliance	UN 38.3, CE
Shipping	UN3480, Class 9

BATTERY PROTECTIONS

Cell Over Voltage
Cell Under Voltage
Over Charge Current
Over Discharge Current
High Temperature in Charging
High Temperature in Discharging
Low Temperature in Charging
Low Temperature in Discharging
Short Circuit



A.7B starter battery is specially designed to fit motorcycle and power sport applications utilizing original 12V battery system

5 THINGS to consider when choosing the right starter batteries for power sport applications

1) ENERGY-RELEASE TECHNOLOGY

During the vehicle's operation, it will charge the starter battery. However, when the battery is overcharged, it can frequently cause fault codes or flashing lights to be displayed on the vehicle dashboard. The A.7B perfectly resolves these problems with its patented *Energy-Release* technology

2) CONVENIENT WIRE CONNECTION

The cable harness position of each motorcycle may vary significantly that normal replacement batteries may not fit. However, the A.7B, with solid copper thread insert terminals on both positive and negative terminals, helps to perfectly resolve this issue

3) EMERGENCY WAKE UP

In the case the battery is over-discharged (for example you left your lights on for a long period of time), the BMS will put the battery into sleep mode and reserves enough energy for emergency use. While the battery is in sleep mode, press and hold the button for 2 seconds will wake it up and provide output voltage for 1 minute, the LED display embedded with the button will smartly indicate the 1 minute countdown

4) BATTERY PROTECTION BY TRUE BMS

Due to cost concerns and the difficulty in design, high C-rate batteries such as RC batteries and starter batteries commonly do not come with enough battery protections, which are theoretically needed for all kinds of lithium batteries. The ATP Battery starter batteries all come with a complete set of protections to ensure safe operations and long-lasting performance

5) SOC ESTIMATION BY CURRENT INTEGRATION

With the built-in high precision coulomb counting ADC, the RSOC displayed on top of the battery is estimated by current integration instead of voltage measuring

CORPORATE INTRODUCTION

ATP Battery Company Limited is the industry leader in design & manufacturing lithium batteries for various industrial & commercial applications. ATP Battery has in-house development team to design the BMS hardware and firmware, we can provide turnkey service from cell selection & qualification, battery pack design, ID & enclosure design, communication protocol design and battery pack manufacturing



AT Battery #	Dimension	Capacity	Corresponding lead-acid battery
A.4T	113 x 70 x 85mm	250CCA / 2.5Ah	YTX4L-BS
A.4		400CCA / 3.6Ah	YTX4L-BS
A.7BS	150 x 65 x 93mm	450CCA / 4Ah	YT7B-BS
A.7B		650CCA / 6Ah	YT7B-BS
A.9B RR16	150 x 65 x 103mm	750CCA / 7Ah	
A.12	150 x 65 x 130mm	450CCA / 4Ah	YT12B-BS
A.12L		650CCA / 6Ah	YT12B-BS
A.12S		900CCA / 8.4Ah	YT12B-BS
A.10	150 x 87 x 106mm	450CCA / 4Ah	YTX9-BS / YT12A-BS / YTZ12S / YTZ14S
A.10L		650CCA / 6Ah	YTX9-BS / YT12A-BS / YTZ12S / YTZ14S
A.10S		1000CCA / 12Ah	YTX9-BS / YT12A-BS / YTZ12S / YTZ14S
A.12XL	150 x 87 x 130mm	650CCA / 6Ah	
A.12XS		1000CCA / 12Ah	
A.14L	150 x 87 x 145mm	650CCA / 6Ah	YTX14-BS
A.14S		1000CCA / 12Ah	YTX14-BS

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May, 18, 2023 REV 01b