

# MOTOBATT

QuadFlex™ Battery  
 WWW.MOTOBATT.COM  
 MBTZ7S



## Features

- Patented Quad Terminal Design - Reduce carrying costs
- 12V VRLA Hi Capacity Starting Battery
- Absorbed Glass Mat (AGM) technology
- Brass Terminals - superior conductivity
- US DOT, IATA certified non-spillable
- Highest AH Capacity in the Industry
- Factory Activated-Ready to Install

## Performance Specifications

**Nominal Voltage** ----- 12 volts (6 cells)

### Nominal Capacity

20-hr. (0.325A to 10.50 volts)-----	6.7 AH
10-hr. (0.65A to 10.50 volts)-----	6.5 AH
5-hr. (1.3A to 10.20 volts)-----	5.5 AH
1C. (4.7A to 9.6 volts)-----	46Min (5.0AH)
8C. (52A to 6.00 volts)-----	3Min (2.6AH)

**Approximate Weight** ----- 4.63 lbs. (2.10kg)

**Energy Density (20-hr. rate)** ----- 1.55W-h/in<sup>3</sup> (94.2 W-h/l)

**Specific Energy (20-hr. rate)** ----- 17.4W-h/lb (38.3 W-h/kg)

**Internal Resistance (approx)** ----- 20 milliohms

**CCA (-0.4°F/-18°C,7.2V,30S)-----** 100 amperes

**CA (68°F/20°C,7.2V,30S)-----** 165 amperes

**Shelf Life (% of nominal capacity at 68°F (20°C)----- SOC% OCV**

1 Months -----	97%	12.78V
3 Months -----	91%	12.7V
6 Months -----	83%	12.5V

### Operating Temperature Range

Charge -----	-4°F (-20°C) to 122°F (50°C)
Discharge -----	-40°F (-40°C) to 140°F (60°C)

**Case** ----- ABS

**Carton Contents** ----- 1-MotoBatt MBTZ7S Battery,  
 4 stainless steel terminal screws, 2 pairs of brass terminals, 3mm  
 Allen Wrench, Install / user manual.

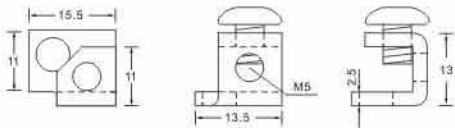


RETAIL CARTON



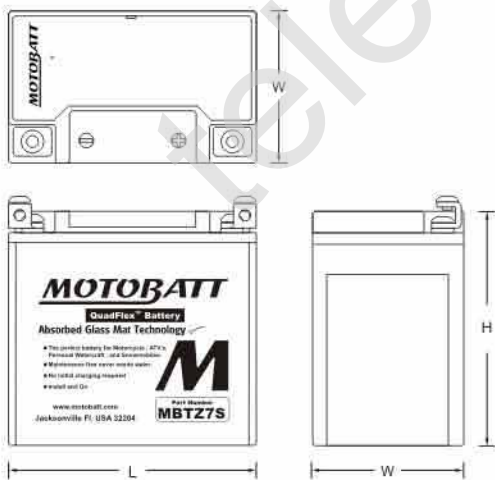
"C" TERMINAL    TERMINAL COVER    SCREW    WRENCH

## Brass Terminals (mm)



Terminal Screws: Stainless, M5 Thread  
 Fastener: 3mm Allen Hex

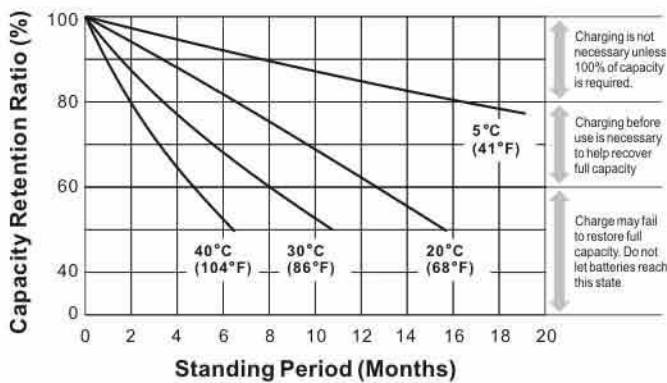
## Physical Dimensions: (in./mm)



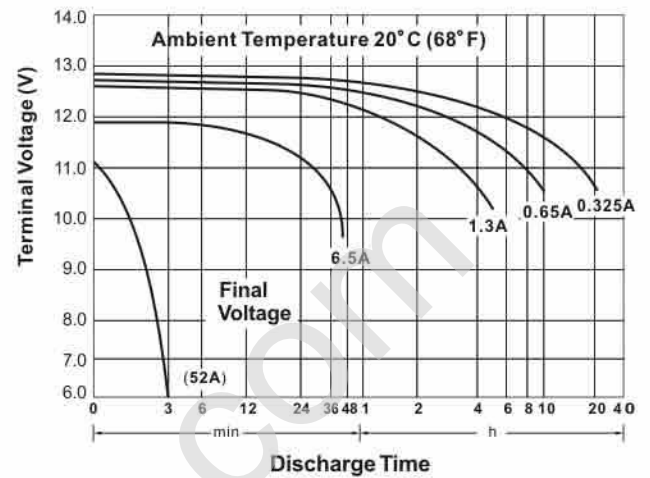
L: 4.49(114)    W: 2.75(70)    H: 4.21(107)

Tolerances are +/0.04in.(+/-1mm) and +/0.08in.(+/-2mm) for height dimensions.

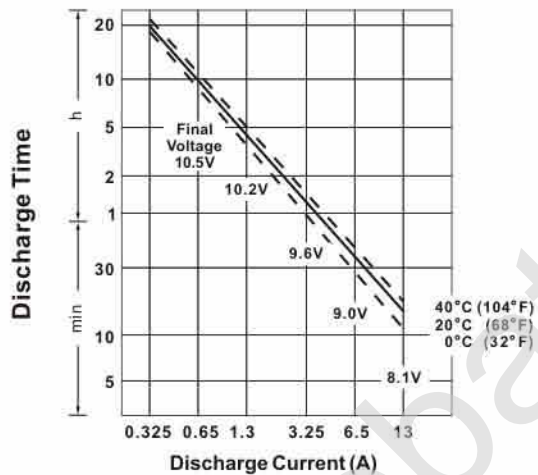
## Shelf life & Storage



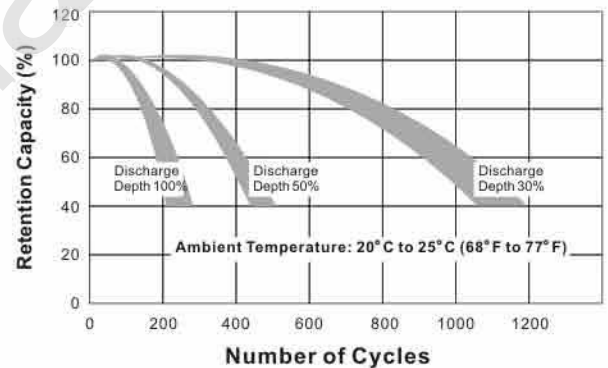
## Discharge Characteristics



## Discharge Time vs. Discharge Current



## Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** limit initial current to 1.95A. Charge until battery voltage (under charge) reaches 14.8 to 15.0 volts at 68°F(20°C). Hold at 14.8 to 15.0 volts until current drops to under 130mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**Note:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

## Can be used to replace

YTX5L-BS	YTZ7S		

## Chargers

MotoBatt offers a wide range of chargers suitable for batteries up to 2A. Please refer to the charger selection guide. Please contact our technical department for advice if you have difficulty in locating suitable models or contact us at [www.motobatt.com](http://www.motobatt.com)

## Further Information

Please refer to our website [www.motobatt.com](http://www.motobatt.com) to locate a distributor in your area.