

# MOTOBATT

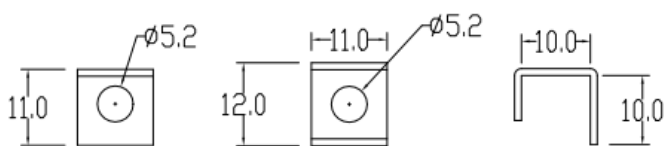
## QuadFlex Battery



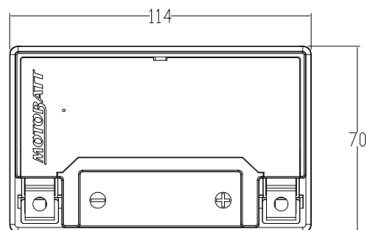
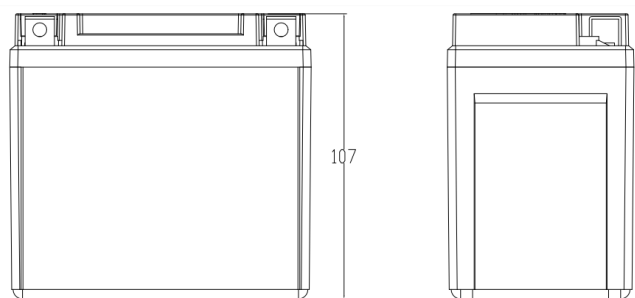
### MBTZ7S



#### Terminal Dimensions (mm)



#### Physical Dimensions (in./mm)



Length: 4.49in(114mm) Width: 2.76in(70mm)  
Height: 4.21in(107mm)

Tolerances are  $\pm 0.04$  inches ( $\pm 1$ mm) and  $\pm 0.08$  inches ( $\pm 2$ mm) for height.

#### 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(6cells)

Nominal Capacity 25°C(77°F)

20-hr. (0.33A to 10.50 volts) ----- 6.90AH

10-hr. (0.65A to 10.50 volts) ----- 6.50AH

5-hr. (1.30A to 10.20 volts) ----- 5.33AH

1C. (6.50A to 9.60 volts) -----4.55AH

3C. (19.5A to 9.60 volts) ----- 2.54AH

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

Energy Density ( 20-hr rate ) -----1.62W-h / in<sup>3</sup> ( 98.7W-h/1 )

Specific Energy ( 20-hr rate ) -----17.6W-h / lb ( 38.8W-h/kg )

Internal Resistance ( approx ) -----18 milliohms

CCA(-0 4°F/-18°C,7.2V,30S) -----100 amperes

CA(32°F/0°C,7.2V,30S) -----158 amperes

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

1 months ----- 97% 12.78V

3 months ----- 91% 12.70V

6 months ----- 83% 12.5V

Operating Temperature Range

Discharge ----- -4°F(-20°C) to 122°F(50°C)

Charge ----- -40°F(-40°C) to 140°F(60°C)

Case ----- ABS



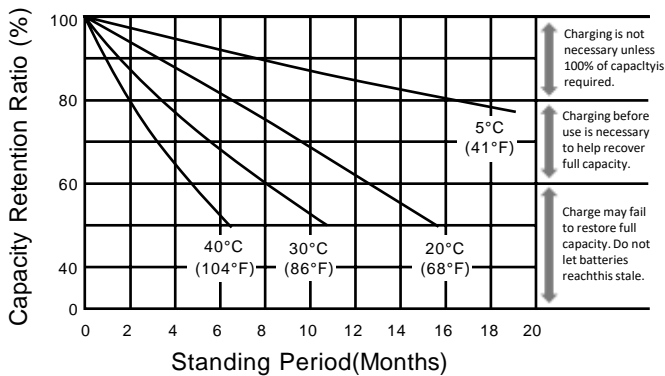
SCREW

# MOTOBATT

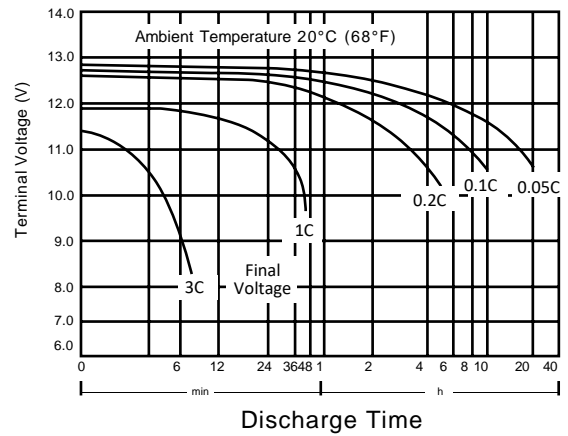
## QuadFlex Battery



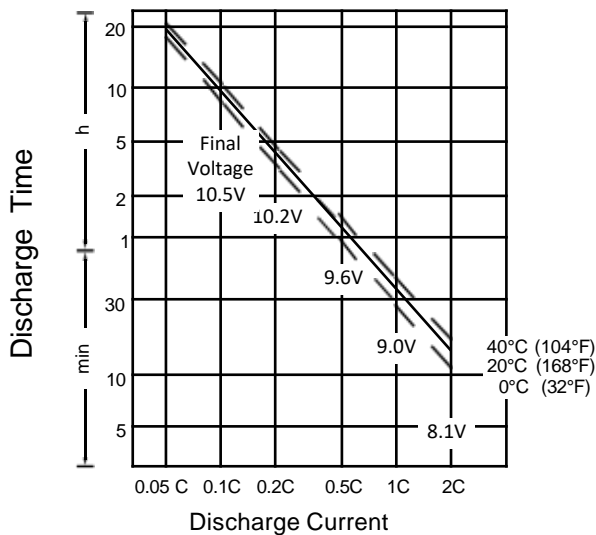
### Shelf life & Storage



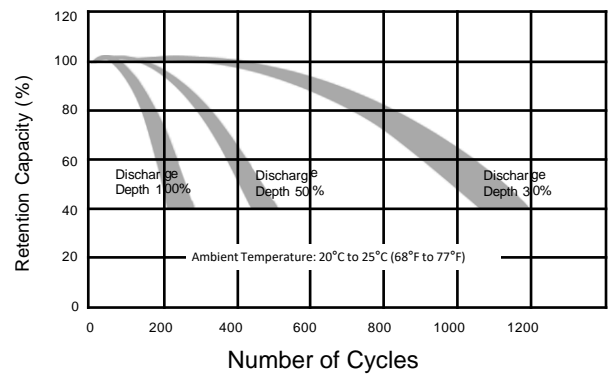
### Discharge Characteristics



### Discharge Time vs. Discharge Current



### Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** Limit initial current to 0.2C. Charge until battery voltage (undercharge) 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 50 mA. 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.

## 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)

## Can be used to replace

YTX5LBS	YTZ6S	YTZ7S	

## Further information

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