

# MOTOBATT

QuadFlex™ Battery  
 WWW.MOTOBATT.COM  
 MBYZ16HD



## Features

- Patented Quad Terminal Design - Reduce carrying costs
- 12V VRLA Hi Capacity Starting Battery
- Absorbed Glass Mat (AGM) technology
- Brass Terminals - superior conductivity
- US 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. (0.7A to 10.50 volts)-----  | 17.3AH         |
| 10-hr. (1.65A to 10.50 volts)----- | 16.5AH         |
| 5-hr. (3.3A to 10.20 volts)-----   | 14 AH          |
| 1C. (16.5A to 9.6 volts)-----      | 41Min (11.3AH) |
| 8C. (132A to 6.00 volts)-----      | 3Min (6.6AH)   |

**Approximate Weight** ----- 11.13 lbs. ( 5.05kg)

**Energy Density** (20-hr. rate) ----- 1.99W-h/in<sup>3</sup> (109.0 W-h/l)

**Specific Energy** (20-hr. rate) ----- 18.7W-h/lb (41.1 W-h/kg)

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

**CCA** (-0.4°F/-18°C,7.2V,30S)----- 240 amperes

**CA** (68°F/20°C,7.2V,30S)----- 300 amperes

**Shelf Life** (% of nomomal capacityat 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 MBYZ16HD Battery,  
 4 stainless steel terminal screws, 2 brass terminals, 4mm Allen  
 Wrench, Install / user manual.



RETAIL CARTON



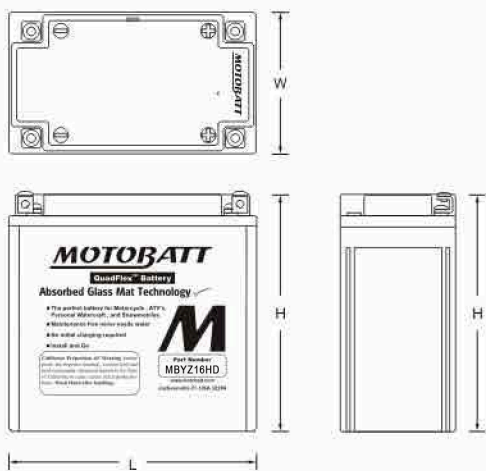
"C" TERMINAL    TERMINAL COVER    SCREW    WRENCH

## Brass Terminals (mm)



Terminal Screws: Stainless, M6 Thread  
 Fastener: 4mm Allen Hex

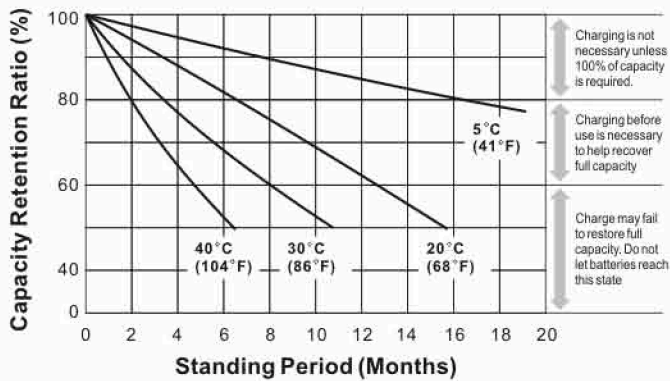
## Physical Dimensions: (in./mm)



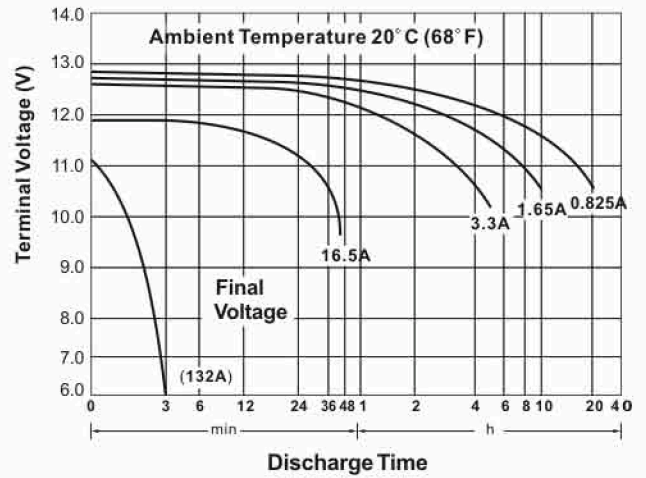
L:5.94(151)    W:3.43(87)    H:5.12(145)

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

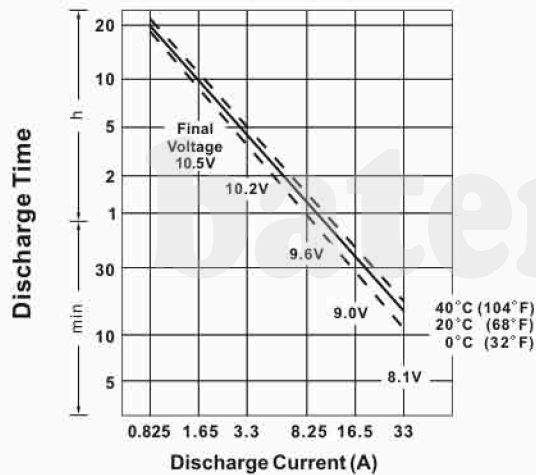
## Shelf life & Storage



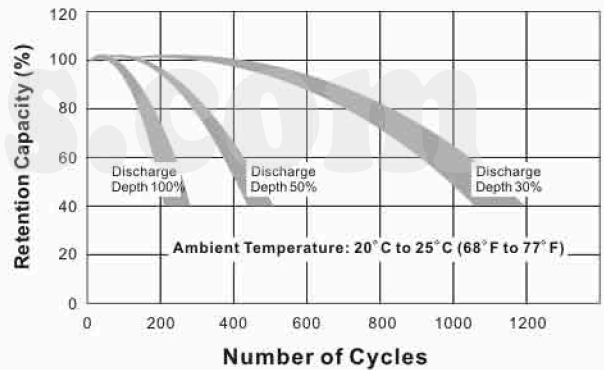
## Discharge Characteristics



## Discharge Time vs. Discharge Current



## Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** limit initial current to 4.95A. 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 330mA. 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 4A. 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

|         |         |          |          |
|---------|---------|----------|----------|
| GTZ16H  | YTX14BS | YTX14HBS | YTX14LBS |
| KMX14BS |         |          |          |
|         |         |          |          |
|         |         |          |          |
|         |         |          |          |
|         |         |          |          |

## Further Information

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