

# MOTOBATT

QuadFlex™ Battery  
 WWW.MOTOBATT.COM  
 MBTX20UHD



## 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. (1.05A to 10.50 volts)	-----	21.6AH
10-hr. (2.1A to 10.50 volts)	-----	21.0AH
5-hr. (4.2A to 10.20 volts)	-----	17.9AH
1C. (21.0A to 9.6 volts)	-----	46Min (16.1AH)
8C. (168A to 6.00 volts)	-----	3Min (8.4AH)

**Approximate Weight** ----- 14.77 lbs. (6.70kg)

**Energy Density** (20-hr. rate) ----- 1.80W-h/in<sup>3</sup> (109.8 W-h/l)

**Specific Energy** (20-hr. rate) ----- 17.55W-h/lb (38.7 W-h/kg)

**Internal Resistance** (approx) ----- 14 milliohms

**CCA** (-0.4°F/-18°C,7.2V,30S)----- 310 amperes

**CA** (68°F/20°C,7.2V,30S)----- 420 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 MBTX20UHD Battery,

Fit spacers (1 bottom,1 side),4 stainless steel terminal screws,  
 4mm Allen Wrench, Install / user manual.



RETAIL CARTON



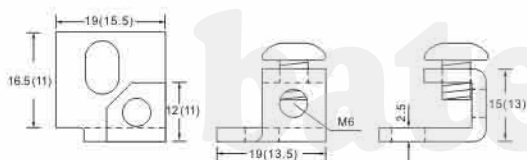
"C" TERMINAL

TERMINAL COVER

SCREW

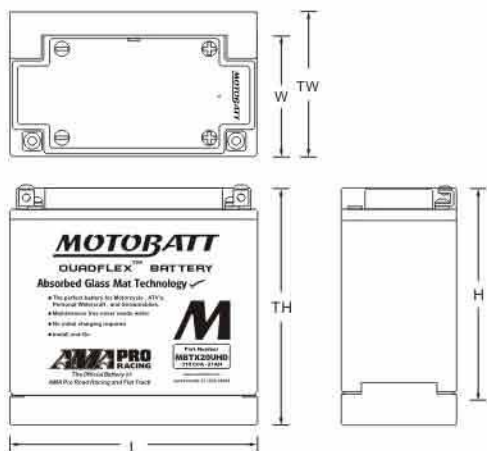
WRENCH

## Brass Terminals (mm)



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

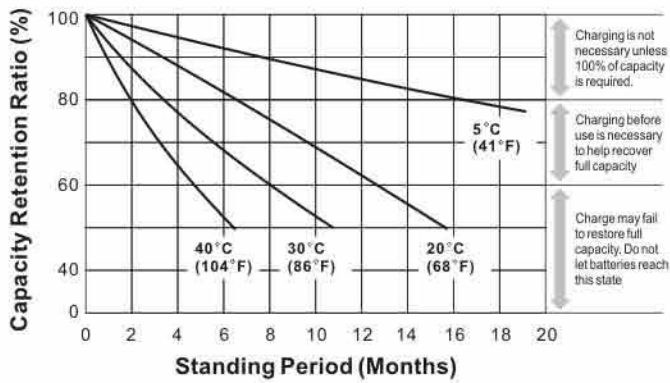
## Physical Dimensions: (in./mm)



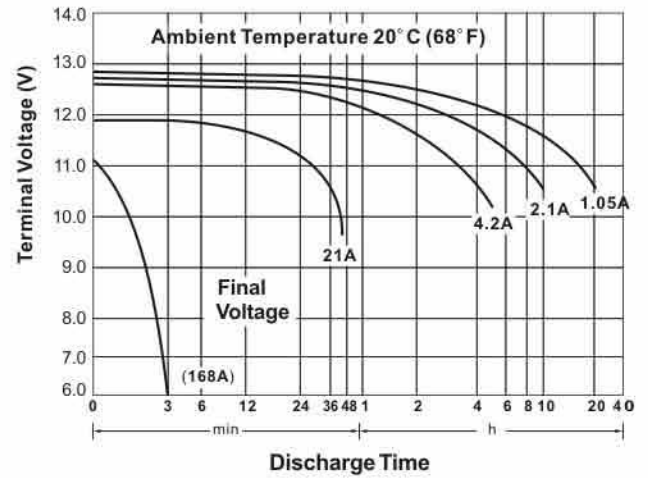
L:6.89(175) W:3.43(87) / TW:3.94(100)  
 H:6.10(155) / TH:6.89(175)

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

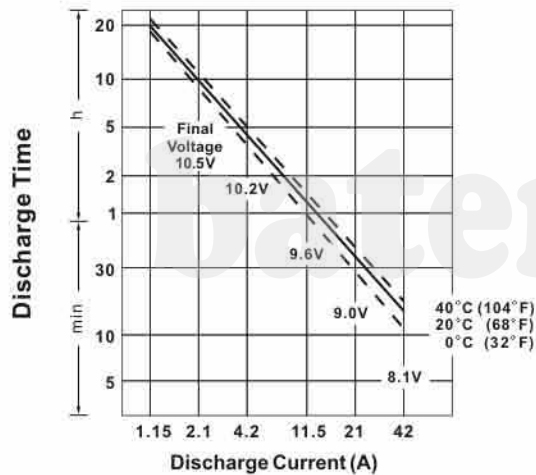
## Shelf life & Storage



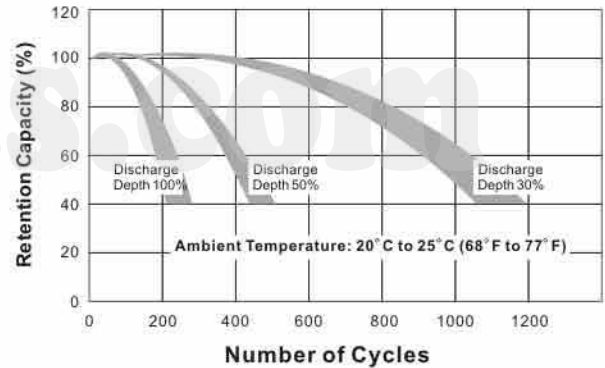
## Discharge Characteristics



## Discharge Time vs. Discharge Current



## Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** limit initial current to 6.3A. 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 420mA. 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

12N16-3A	12N16-3B	12N16-4A	12N16-4B
YTX20BS	YTX20HBS	YTX20LBS	YTX20HLBS
YTX20HLBSPW	YB16A	YB16A2	YB16B
YB16B2	YB16HLACX	SYB16LB	YB16LA
YB16LA2	YB16LB	YB16LB2	YB16CB
YB16CLB	YB16BCX	GT16LBS	GT16BS
CTX19LBS	CTX19BS	GYZ20L	GYZ20HL

## Further Information

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