

# MOTOBATT

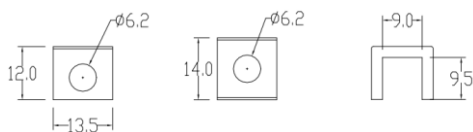


## QuadFlex™ Battery

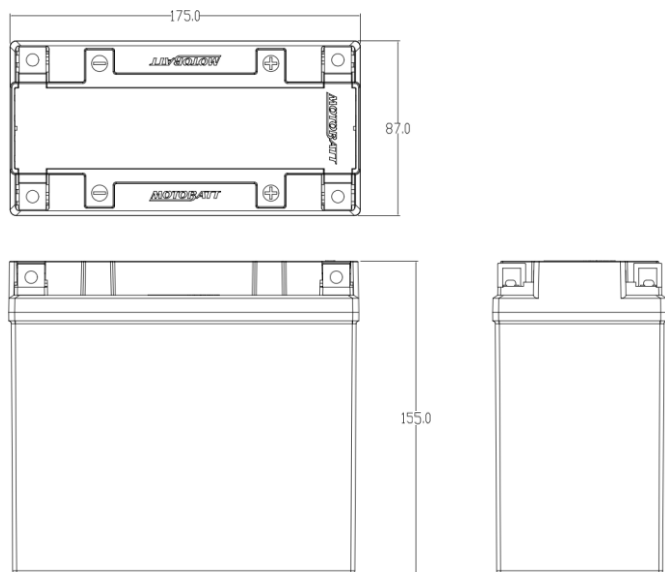
### MBTX20U



#### Terminal Dimensions (mm)



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



Length: 6.89in(175mm) Width: 3.43in(87mm)  
 Height: 6.10in(155mm) Total Width: 3.94in(100mm)  
 Total Height: 6.89in(175mm)

Tolerances are ±0.04 inches (±1mm) and ±0.08 inches (±2mm) 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. (1.05A to 10.50 volts) ----- 22.3AH

10-hr. (2.10A to 10.50 volts) ----- 21AH

5-hr. (4.2A to 10.20 volts) ----- 17.22AH

1C. (21.0A to 9.60 volts) ----- 9.45AH

3C. (63.0A to 9.60 volts) ----- 7.56AH

Approximate Weight ----- 14.55lbs. (6.60kg)

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

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

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

CCA(-0 4°F/-18°C,7.2V,30S) -----320 amperes

CA(68°F/-20°C,7.2V,30S) -----395 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

Warranty ----- 1 year

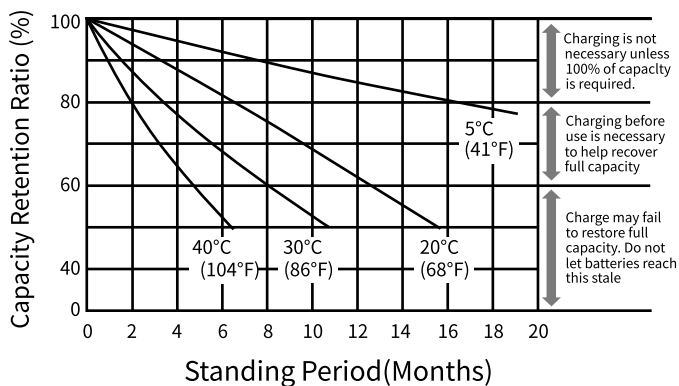


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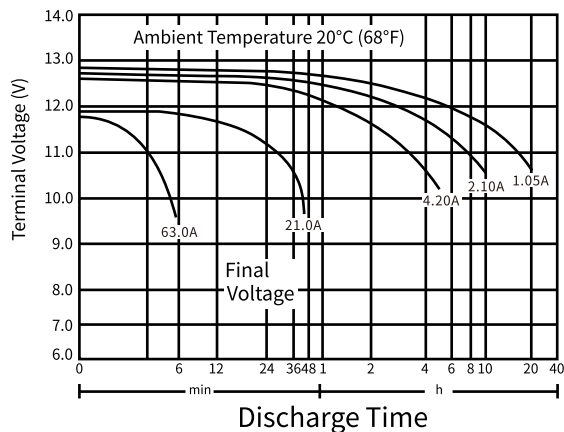


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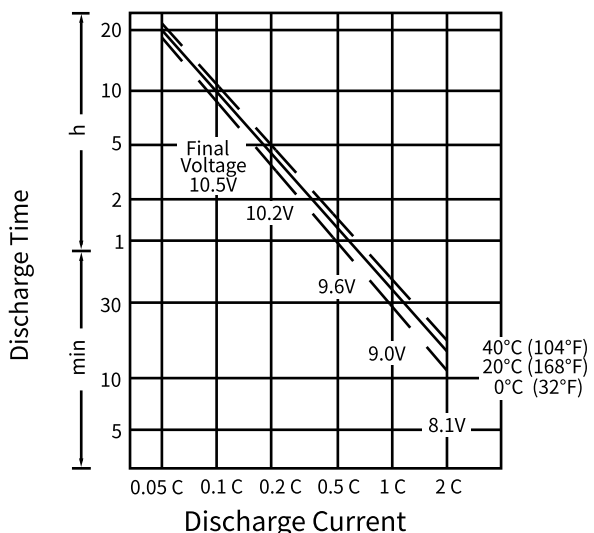
### Shelf life & Storage



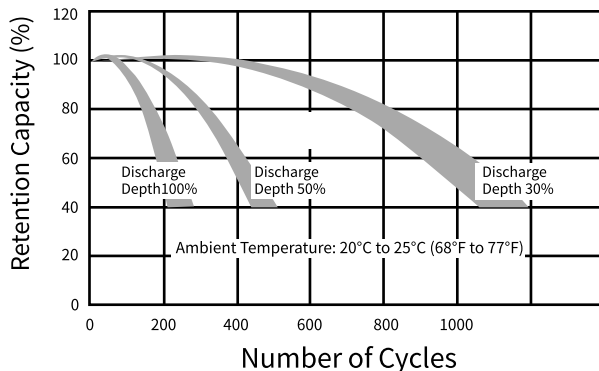
### Discharge Characteristics



### Discharge Time vs. Discharge Current



### Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** Limit initial current to 0.2C. Charge until battery voltage (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 395 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

12N16 3A	12N16 3B	12N16 4A	12N16 4B
YTX20	YTX20L	YTX20BS	YTX20HBS
YTX20LBS	YTX20HLBS	YTX20HL-BS-PW	YTX20H
YTX20HL	YTX20HL-PW	YB16A	YB16A2
YB16B	YB16B2	YB16HLACX	SYB16LB
YB16LA	YB16LA2	YB16LB	YB16LB2
YB16CB	YB16CLB	YB16BCX	GT16L-BS
GT16-BS	CTX19L-BS	CTX19-BS	GYZ20H
GYZ20L	GYZ20HL		

## Further information

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