# MOTOBALL

QuadFlex<sup>™</sup> Battery WWW.MOTOBATT.COM MB51814





#### **Brass Terminals**

(mm)

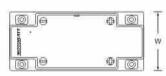




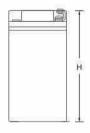


Terminal Screws: Stainless, M6 Thread Fastener: 4mm Allen Hex

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







L:7.20(183) W:3.15(80) H:6.69(170)

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

#### **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**

Manager 1 1/2 14 2 2 2 2

Nominal	<b>Voltage</b> 12 volts (6	cells)
Nominal	Capacity	
20-hr.	(1.1A to 10.50 volts) 2	23.0 AH
10-hr.	(2.2A to 10.50 volts) 2	2.0 AH
5-hr.	(4.4A to 10.20 volts) 1	
1C.	(22.0A to 9.6 volts) 40Min (14	
8C.	(176A to 6.00 volts)3Min (8	3.8AH)
Approxin	mate Weight14.55 lbs. ( 6	.60kg)
Energy D	Density (20-hr. rate) 1.82W-h/in <sup>3</sup> (110.9	W-h/I)
Specific	Energy (20-hr. rate)18.97W-h/lb (41.8 W	/-h/kg)
Internal l	Resistance (approx) 16 mill	iohms
CCA (-0.4	4°F/-18°C,7.2V,30S) 220 am	nperes
CA (68°F/2	20°C,7.2V,30S)275 an	nperes
Shelf Life	e (% of nomomal capacityat 68°F (20°C) SOC%	OCV
		12.78V
	PD 1070	12.7V
6 Mont	ths 83%	12.5V
Operatin	g Temperature Range	
	e4°F(-20°C) to 122°F	
Discha	arge40°F (-40°C) to 140°F	(60°C)

### **Case** ------ ABS

**Carton Contents** -----1-MotoBatt MB51814 Battery, 4 stainless steel terminal screws, 2 brass terminals, 4mm Allen Wrench, Install / user manual.





"C" TERMINAL







10 .... (C -- !!-)

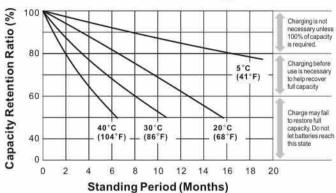
RETAIL CARTON

TERMINAL COVER

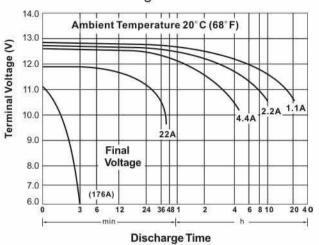
SCREW

WRENCH

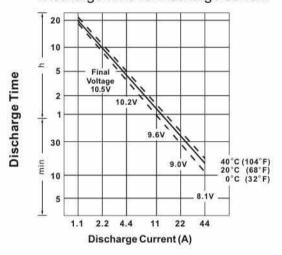
## Shelf life & Storage



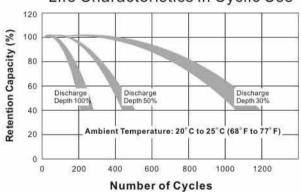
#### Discharge Characteristics



#### Discharge Time vs. Discharge Current



#### Life Characteristics in Cyclic Use



#### Charging

Cycle Applications: limit initial current to 6.6A. Charge until battery votage (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 440mA. 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

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#### 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

#### **Further Information**

Please refer to our website www.motobatt.com to locate a distributor in your area.