

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Industry Battery-General Purpose AGM Battery-TN Series

# TN6-8.0

(6V 8.0Ah)

### GENERAL FEATURES

- ◆ Oxygen recombination technology: maintenance-free, no need to add water or acid
- ◆ The patent grid alloy: less gassing, low self-discharge, excellent corrosion resistance
- ◆ Design life is 3~5 years at 25°C under standby application, deep discharge recoverability
- ◆ High quality AGM separator: extend cycle life and prevent micro short circuit
- ◆ ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)



### Application

- ◆ Uninterrupted Power Supply ( UPS )
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security system
- ◆ Control equipment, and other factory automation equipment
- ◆ Emergency power supply ( EPS )
- ◆ Portable VTR/TV, radio and so on
- ◆ Power tools, lawn mowers, vacuum cleaners
- ◆ Cameras and photographic equipment
- ◆ Portable measuring equipment
- ◆ Portable telephone sets
- ◆ Various power toys and hobby equipment
- ◆ Lighting equipment

### Dimension

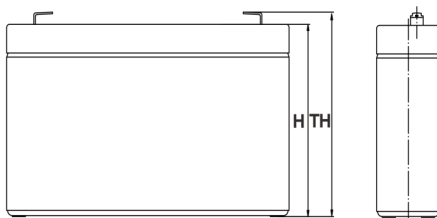
Unit:mm

Length 151±2mm / 5.94inch

Width 34±2mm / 1.34inch

Container Height 94±3mm / 3.7inch

Total Height 100±3mm / 3.94inch



### Terminal

Unit:mm

Terminal Type: T1/T2

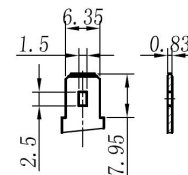
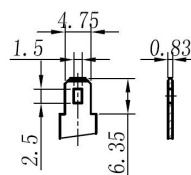
### Weight

1.2kg

2.65lbs

T1

T2



This document is subject to change without prior notification

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## TN6-8.0

### Specification

<b>Nominal Voltage</b>	6V	
<b>Rated Capacity(25°C)</b>	8.00Ah	20hr Rate (1.80V/cell)
	7.45Ah	10hr Rate (1.80V/cell)
	6.93Ah	5hr Rate (1.75V/cell)
	6.39Ah	3hr Rate (1.70V/cell)
	5.1Ah	1hr Rate (1.60V/cell)
<b>Container Material</b>	ABS ( Flame-retardant ABS UL94-V0 is optional )	
<b>Operating Temperature Range</b>	<b>Discharge</b>	-20 ~ +50°C
	<b>Charge</b>	0 ~ +40°C
	<b>Storage</b>	-15 ~ +40°C
<b>Capacity Effected by Temperature</b>	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	65%
<b>Charge</b>	<b>Float Voltage</b>	2.23 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	<b>Equalize Voltage</b>	2.35 -2.40V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	<b>Cycle Voltage</b>	2.40 -2.50V/cell@25°C, Tem.Coefficient : -5mV/cell/°C
<b>Max. Charging Current</b>	2.4A ( 0.3C)	
<b>Max. Discharge Current (5S)</b>	120A	
<b>Internal Resistance</b>	11.8mΩ	
<b>Self-Discharge</b>	<3%, TN series stored at 25 °C require a supplementary charge every six months, the charging interval would shrink when the ambient temperature went higher	

### Discharge Performance

Constant Current Discharge Table (25°C/77°F) Unit: A															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.3	11.7	9.7	8.4	6.5	4.8	4.08	2.42	1.89	1.54	1.25	1.08	0.87	0.723	0.396
1.80V/cell	20.5	15.0	11.7	9.9	7.7	5.6	4.57	2.63	2.04	1.64	1.34	1.16	0.93	0.745	0.400
1.75V/cell	23.1	16.5	12.8	10.7	7.9	5.8	4.79	2.73	2.07	1.68	1.39	1.19	0.94	0.765	0.404
1.70V/cell	25.4	17.9	13.7	11.2	8.3	6.1	4.94	2.80	2.13	1.72	1.42	1.22	0.95	0.780	0.412
1.67V/cell	28.0	19.3	14.5	11.9	8.7	6.2	5.05	2.85	2.22	1.78	1.45	1.24	0.97	0.796	0.417
1.60V/cell	30.9	21.0	15.6	12.7	9.2	6.5	5.10	2.96	2.28	1.84	1.50	1.27	0.98	0.805	0.419

Constant Power Discharge Table (25°C/77°F) Unit: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.9	21.7	18.1	15.8	12.4	9.3	7.88	4.69	3.68	3.00	2.46	2.13	1.72	1.431	0.785
1.80V/cell	37.0	27.3	21.6	18.4	14.4	10.7	8.78	5.09	3.94	3.19	2.62	2.27	1.82	1.471	0.792
1.75V/cell	40.9	29.5	23.3	19.6	14.8	11.1	9.14	5.25	3.99	3.25	2.68	2.33	1.85	1.507	0.799
1.70V/cell	43.7	31.5	24.5	20.5	15.3	11.5	9.40	5.37	4.10	3.33	2.75	2.37	1.87	1.537	0.813
1.67V/cell	47.5	33.6	25.8	21.6	16.0	11.6	9.55	5.42	4.26	3.43	2.82	2.41	1.90	1.567	0.823
1.60V/cell	51.3	35.7	27.2	22.7	16.8	12.0	9.57	5.62	4.36	3.53	2.90	2.46	1.91	1.582	0.826

动力电池

储能电池

备用电池

摩托车电池



## 阀控式免维护铅酸蓄电池 - 通用型

# TN6-8.0

(6V 8.0Ah)

### 产品特点

- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀性能力出众
- ◆ 在25°C下，产品浮充设计寿命为3~5年，优良的深放电恢复能力
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



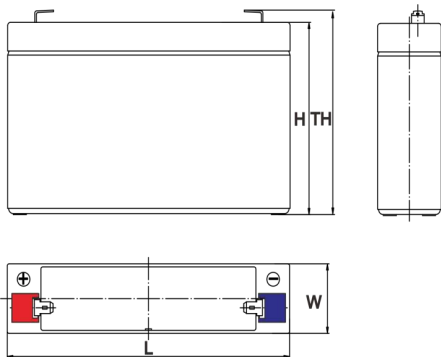
### 产品应用

- ◆ 不间断电源(UPS)
- ◆ 通信和电力设备
- ◆ 紧急照明设备
- ◆ 火灾报警及安防系统
- ◆ 控制设备及其他机械自动化设备
- ◆ 应急电源系统
- ◆ 便携式音频设备
- ◆ 电动工具，割草机，真空吸尘器
- ◆ 照相设备
- ◆ 便携式测量工具
- ◆ 便携式通话设备
- ◆ 各式电动玩具及娱乐设施
- ◆ 照明设备

### 尺寸

单个尺寸

长	151±2mm
宽	34±2mm
高	94±3mm
总高	100±3mm



### 端子类型

单位:mm

端子类型 T1/T2

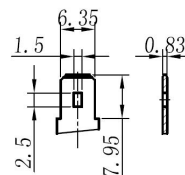
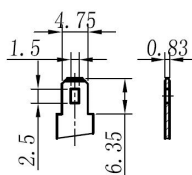
### 重量

1.2kg

2.65lbs

T1

T2



内容如有改动，恕不另行通知

动力电池

储能电池

备用电池

摩托车电池



## TN6-8.0

### 规格书

额定电压	6V	
容量(25°C)	8.00Ah	20hr Rate (1.80V/cell)
	7.45Ah	10hr Rate (1.80V/cell)
	6.93Ah	5hr Rate (1.75V/cell)
	6.39Ah	3hr Rate (1.70V/cell)
	5.1Ah	1hr Rate (1.60V/cell)
壳体材料	ABS (阻燃ABS壳体可选)	
使用温度范围	放电	-20 ~ +50°C
	充电	0 ~ +40°C
	储存	-15 ~ +40°C
不同温度下 电池容量系数	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	65%
充电	浮充电压	2.23 -2.27V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	均充电压	2.35 -2.40V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	循环使用电压	2.40 -2.50V/单格@25°C, 温度补偿系数: -5mV/单格/°C
最大充电电流	2.4A (0.3C)	
最大放电电流 (5S)	120A	
电阻	11.8mΩ	
自放电	<3%, TN系列储存在25°C 时需每6个月进行一次补充充电, 环境温度更高时则充电间隔时间越短	

### 放电性能

恒电流放电表 (25°C/77°F) 单位: A

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.3	11.7	9.7	8.4	6.5	4.8	4.08	2.42	1.89	1.54	1.25	1.08	0.87	0.723	0.396
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恒功率放电表 (25°C/77°F) 单位: W

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.9	21.7	18.1	15.8	12.4	9.3	7.88	4.69	3.68	3.00	2.46	2.13	1.72	1.431	0.785
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