

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# TN12-8.0

(12V 7.5Ah)

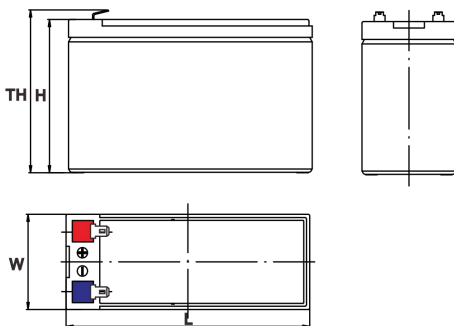
### GENERAL FEATURES

- 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)

### Dimension

Unit:mm

Length	151±2mm / 5.94inch
Width	65.5±2mm / 2.58inch
Container Height	93.5±3mm / 3.68inch
Total Height	99.5±3mm / 3.92inch



### 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

### Terminal

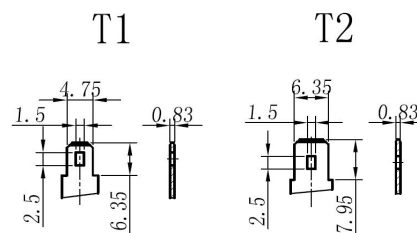
Unit:mm

Terminal Type: T1/T2

### Weight

2.35kg

5.18lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery Energy Storage Battery Reserve Battery Motorcycle Battery

## TN12-8.0

### Specificaion

<b>Nominal Voltage</b>	12V	
<b>Rated Capacity(25°C)</b>	8.00Ah	20hr Rate(1.80V/cell )
	7.47Ah	10hr Rate(1.80V/cell )
	6.80Ah	5hr Rate(1.75V/cell )
	6.15Ah	3hr Rate(1.70V/cell )
	5.01Ah	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>	<b>40°C / 104°F</b>	106%
	<b>25°C / 77°F</b>	100%
	<b>0°C / 32°F</b>	86%
	<b>-10°C / 14°F</b>	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>	19mΩ	
<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	18.4	13.2	11.2	9.5	7.0	5.2	4.19	2.49	1.86	1.51	1.27	1.10	0.87	0.713	0.392
1.80V/cell	22.0	15.3	12.6	10.4	7.6	5.6	4.48	2.64	1.95	1.58	1.33	1.15	0.91	0.747	0.400
1.75V/cell	24.6	16.7	13.5	11.0	7.9	5.8	4.65	2.72	2.00	1.61	1.36	1.17	0.92	0.759	0.409
1.70V/cell	26.8	18.0	14.3	11.5	8.2	6.0	4.76	2.79	2.05	1.65	1.38	1.19	0.94	0.769	0.413
1.67V/cell	29.1	18.9	14.9	11.9	8.5	6.2	4.90	2.84	2.09	1.67	1.41	1.21	0.95	0.777	0.417
1.60V/cell	30.7	19.8	15.4	12.3	8.8	6.4	5.01	2.90	2.13	1.71	1.43	1.23	0.96	0.786	0.422

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	34.7	25.2	21.5	18.4	13.7	10.2	8.14	4.86	3.64	2.96	2.51	2.18	1.73	1.436	0.792
1.80V/cell	41.1	29.0	24.0	20.1	14.8	10.8	8.68	5.14	3.82	3.11	2.62	2.28	1.81	1.496	0.806
1.75V/cell	45.6	31.4	25.6	21.1	15.3	11.2	8.99	5.28	3.90	3.15	2.66	2.30	1.83	1.517	0.819
1.70V/cell	48.9	33.2	26.7	21.8	15.8	11.5	9.12	5.36	3.96	3.19	2.69	2.33	1.84	1.527	0.821
1.67V/cell	52.3	34.6	27.5	22.4	16.2	11.7	9.30	5.41	4.00	3.22	2.71	2.34	1.85	1.532	0.823
1.60V/cell	53.8	35.2	27.9	22.6	16.4	11.9	9.41	5.50	4.05	3.26	2.74	2.37	1.87	1.547	0.829

□ 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

# TN12-8.0

(12V 7.5Ah)

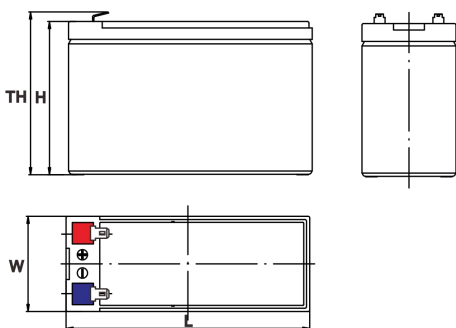
### 产品特点

- ◆ 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）

### 尺寸

单个尺寸

长	151±2mm
宽	65.5±2mm
高	93.5±3mm
总高	99.5±3mm



### 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

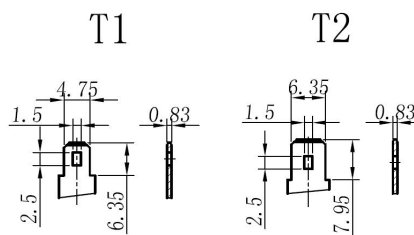
### 端子类型

单位:mm

端子类型 T1/T2

### 重量

2.35kg 5.18lbs



ISO9001 ISO14001 OHSAS18001

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



## TN12-8.0

### 规格书

额定电压	12V	
容量(25°C)	8.00Ah	20hr Rate(1.80V/cell)
	7.47Ah	10hr Rate(1.80V/cell)
	6.80Ah	5hr Rate(1.75V/cell)
	6.15Ah	3hr Rate(1.70V/cell)
	5.01Ah	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	19mΩ	
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	18.4	13.2	11.2	9.5	7.0	5.2	4.19	2.49	1.86	1.51	1.27	1.10	0.87	0.713	0.392
1.80V/cell	22.0	15.3	12.6	10.4	7.6	5.6	4.48	2.64	1.95	1.58	1.33	1.15	0.91	0.747	0.400
1.75V/cell	24.6	16.7	13.5	11.0	7.9	5.8	4.65	2.72	2.00	1.61	1.36	1.17	0.92	0.759	0.409
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1.67V/cell	29.1	18.9	14.9	11.9	8.5	6.2	4.90	2.84	2.09	1.67	1.41	1.21	0.95	0.777	0.417
1.60V/cell	30.7	19.8	15.4	12.3	8.8	6.4	5.01	2.90	2.13	1.71	1.43	1.23	0.96	0.786	0.422

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	34.7	25.2	21.5	18.4	13.7	10.2	8.14	4.86	3.64	2.96	2.51	2.18	1.73	1.436	0.792
1.80V/cell	41.1	29.0	24.0	20.1	14.8	10.8	8.68	5.14	3.82	3.11	2.62	2.28	1.81	1.496	0.806
1.75V/cell	45.6	31.4	25.6	21.1	15.3	11.2	8.99	5.28	3.90	3.15	2.66	2.30	1.83	1.517	0.819
1.70V/cell	48.9	33.2	26.7	21.8	15.8	11.5	9.12	5.36	3.96	3.19	2.69	2.33	1.84	1.527	0.821
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1.60V/cell	53.8	35.2	27.9	22.6	16.4	11.9	9.41	5.50	4.05	3.26	2.74	2.37	1.87	1.547	0.829