

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# TN12-7.5

(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)



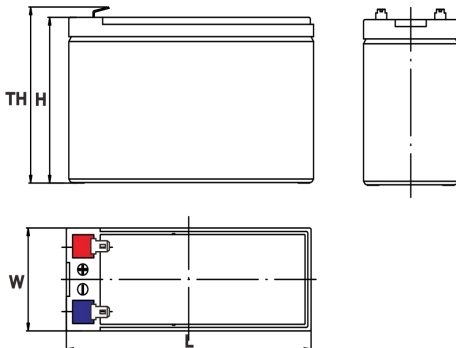
### Application

- ◆ 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	65.5±2mm / 2.58inch
Container Height	93.5±3mm / 3.68inch
Total Height	99.5±3mm / 3.92inch



### Terminal

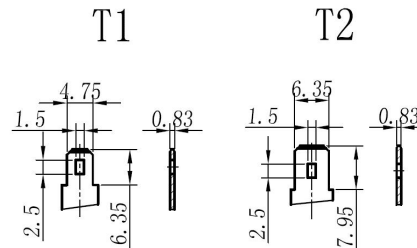
Unit:mm

Terminal Type: T1/T2

### Weight

2.35kg

5.18lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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## TN12-7.5

### Specification

<b>Nominal Voltage</b>	12V	
<b>Rated Capacity(25°C)</b>	7.50Ah	20hr Rate (1.80V/cell)
	7.01Ah	10hr Rate (1.80V/cell)
	6.34Ah	5hr Rate (1.75V/cell)
	5.69Ah	3hr Rate (1.70V/cell)
	4.63Ah	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>	2.25A ( 0.3C)	
<b>Max. Discharge Current (5S)</b>	112.5A	
<b>Internal Resistance</b>	20mΩ	
<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	17.2	12.5	10.7	9.1	6.6	4.9	3.92	2.32	1.74	1.41	1.20	1.03	0.82	0.672	0.368
1.80V/cell	20.6	14.6	12.1	9.9	7.1	5.2	4.16	2.44	1.81	1.47	1.24	1.07	0.85	0.701	0.375
1.75V/cell	23.0	16.0	12.9	10.4	7.4	5.4	4.32	2.52	1.86	1.50	1.27	1.09	0.86	0.712	0.383
1.70V/cell	25.1	17.1	13.7	10.9	7.7	5.6	4.41	2.57	1.90	1.53	1.29	1.11	0.88	0.721	0.387
1.67V/cell	27.3	18.0	14.3	11.3	8.0	5.7	4.53	2.62	1.93	1.56	1.31	1.13	0.89	0.729	0.391
1.60V/cell	28.7	18.9	14.8	11.7	8.2	5.9	4.63	2.68	1.97	1.59	1.34	1.15	0.90	0.740	0.398

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	32.4	23.9	20.5	17.6	12.9	9.5	7.60	4.53	3.40	2.77	2.35	2.04	1.63	1.351	0.744
1.80V/cell	38.5	27.7	23.0	19.0	13.8	10.0	8.07	4.74	3.53	2.89	2.43	2.12	1.68	1.401	0.756
1.75V/cell	42.7	30.0	24.4	19.9	14.3	10.4	8.36	4.87	3.61	2.93	2.48	2.15	1.70	1.421	0.768
1.70V/cell	45.8	31.6	25.7	20.7	14.7	10.6	8.45	4.94	3.66	2.97	2.51	2.17	1.72	1.431	0.770
1.67V/cell	49.0	32.9	26.5	21.3	15.1	10.8	8.60	4.98	3.69	3.00	2.53	2.19	1.73	1.431	0.772
1.60V/cell	50.4	33.7	26.9	21.6	15.3	11.0	8.72	5.07	3.75	3.03	2.56	2.22	1.75	1.451	0.781

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

# TN12-7.5

(12V 7.5Ah)

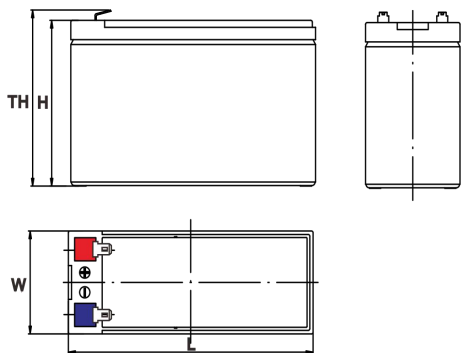
### 产品特点

- ◆ 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

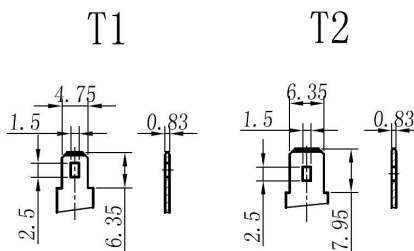
单位:mm

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



# TN12-7.5

## 规格书

额定电压	12V	
容量(25°C)	7.50Ah	20hr Rate (1.80V/cell)
	7.01Ah	10hr Rate (1.80V/cell)
	6.34Ah	5hr Rate (1.75V/cell)
	5.69Ah	3hr Rate (1.70V/cell)
	4.63Ah	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	2.25A (0.3C)	
最大放电电流 (5S)	112.5A	
电阻	20mΩ	
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	17.2	12.5	10.7	9.1	6.6	4.9	3.92	2.32	1.74	1.41	1.20	1.03	0.82	0.672	0.368
1.80V/cell	20.6	14.6	12.1	9.9	7.1	5.2	4.16	2.44	1.81	1.47	1.24	1.07	0.85	0.701	0.375
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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	32.4	23.9	20.5	17.6	12.9	9.5	7.60	4.53	3.40	2.77	2.35	2.04	1.63	1.351	0.744
1.80V/cell	38.5	27.7	23.0	19.0	13.8	10.0	8.07	4.74	3.53	2.89	2.43	2.12	1.68	1.401	0.756
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1.60V/cell	50.4	33.7	26.9	21.6	15.3	11.0	8.72	5.07	3.75	3.03	2.56	2.22	1.75	1.451	0.781