

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# TN12-8.5

(12V 8.5Ah)

### 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

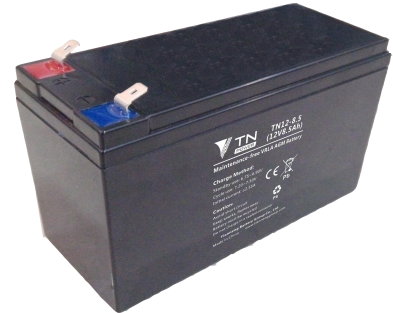
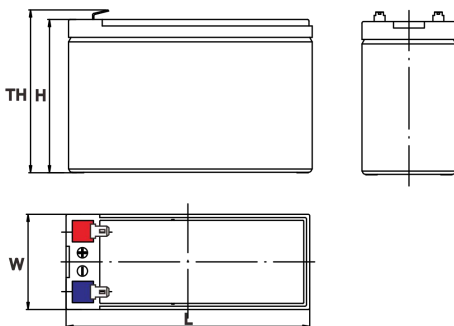
Unit:mm

Length 151±2mm / 5.94inch

Width 65±2mm / 2.56inch

Container Height 93.5±3mm / 3.68inch

Total Height 99±3mm / 3.9inch



### Application

- ♦ Uninterrupted Power Supply ( UPS )
- ♦ Communications and electric equipment
- ♦ Emergency lighting equipment
- ♦ Fire alarm and security system
- ♦ Robots, 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

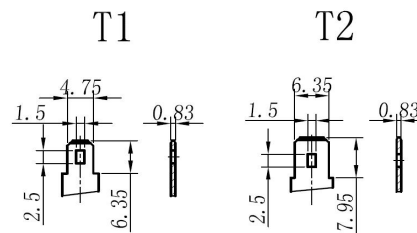
Unit:mm

Terminal Type: T1/T2

### Weight

2.45kg

5.4lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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## TN12-8.5

### Specificaion

<b>Nominal Voltage</b>	12V	
<b>Rated Capacity(25°C)</b>	8.51Ah	20hr Rate(1.80V/cell )
	7.94Ah	10hr Rate(1.80V/cell )
	7.26Ah	5hr Rate(1.75V/cell )
	6.61Ah	3hr Rate(1.70V/cell )
	5.39Ah	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>	2.55A ( 0.3C )	
<b>Max. Discharge Current (5S)</b>	127.5A	
<b>Internal Resistance</b>	18mΩ	
<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	19.6	13.9	11.7	9.9	7.4	5.6	4.47	2.66	1.98	1.60	1.35	1.16	0.92	0.754	0.415
1.80V/cell	23.4	16.0	13.1	10.9	8.1	6.0	4.80	2.84	2.10	1.70	1.42	1.22	0.97	0.794	0.425
1.75V/cell	26.1	17.4	14.1	11.6	8.5	6.2	4.97	2.92	2.15	1.73	1.45	1.24	0.99	0.807	0.434
1.70V/cell	28.5	18.8	14.8	12.1	8.8	6.5	5.12	3.00	2.20	1.77	1.47	1.26	1.00	0.817	0.439
1.67V/cell	30.9	19.8	15.4	12.5	9.1	6.7	5.28	3.06	2.25	1.79	1.50	1.28	1.01	0.826	0.443
1.60V/cell	32.6	20.6	15.9	12.8	9.3	6.8	5.39	3.13	2.28	1.83	1.52	1.30	1.02	0.833	0.446

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	36.9	26.4	22.4	19.2	14.5	10.8	8.68	5.19	3.88	3.15	2.67	2.32	1.83	1.522	0.840
1.80V/cell	43.6	30.2	24.9	21.1	15.8	11.6	9.29	5.54	4.10	3.32	2.80	2.43	1.93	1.592	0.856
1.75V/cell	48.4	32.7	26.7	22.2	16.3	12.0	9.62	5.68	4.18	3.36	2.83	2.45	1.95	1.612	0.870
1.70V/cell	52.0	34.8	27.7	22.9	16.8	12.3	9.80	5.78	4.26	3.41	2.86	2.48	1.96	1.622	0.873
1.67V/cell	55.6	36.2	28.4	23.4	17.2	12.5	10.01	5.84	4.31	3.44	2.89	2.49	1.97	1.632	0.875
1.60V/cell	57.3	36.7	28.9	23.6	17.4	12.7	10.11	5.93	4.34	3.48	2.92	2.52	1.98	1.642	0.877

□ 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

# TN12-8.5

(12V 8.5Ah)

### 产品特点

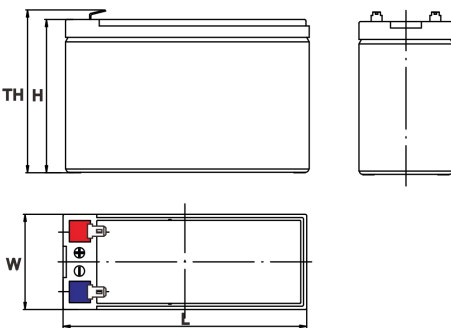
- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- ◆ 在25°C下，产品浮充设计寿命为3~5年，优良的深放电恢复能力
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



### 尺寸

单个尺寸

长	151±2mm
宽	65±2mm
高	93.5±3mm
总高	99±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
- ◆ 机器人、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

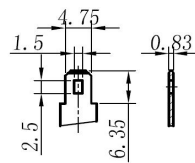
端子类型 T1/T2

### 重量

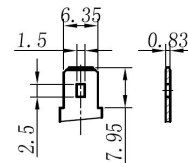
2.45kg

5.4lbs

T1



T2



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



## TN12-8.5

### 规格书

额定电压	12V	
容量(25°C)	8.51Ah	20hr Rate(1.80V/cell)
	7.94Ah	10hr Rate(1.80V/cell)
	7.26Ah	5hr Rate(1.75V/cell)
	6.61Ah	3hr Rate(1.70V/cell)
	5.39Ah	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	2.55A (0.3C)	
最大放电电流 (5S)	127.5A	
电阻	18mΩ	
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	19.6	13.9	11.7	9.9	7.4	5.6	4.47	2.66	1.98	1.60	1.35	1.16	0.92	0.754	0.415
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1.75V/cell	26.1	17.4	14.1	11.6	8.5	6.2	4.97	2.92	2.15	1.73	1.45	1.24	0.99	0.807	0.434
1.70V/cell	28.5	18.8	14.8	12.1	8.8	6.5	5.12	3.00	2.20	1.77	1.47	1.26	1.00	0.817	0.439
1.67V/cell	30.9	19.8	15.4	12.5	9.1	6.7	5.28	3.06	2.25	1.79	1.50	1.28	1.01	0.826	0.443
1.60V/cell	32.6	20.6	15.9	12.8	9.3	6.8	5.39	3.13	2.28	1.83	1.52	1.30	1.02	0.833	0.446

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	36.9	26.4	22.4	19.2	14.5	10.8	8.68	5.19	3.88	3.15	2.67	2.32	1.83	1.522	0.840
1.80V/cell	43.6	30.2	24.9	21.1	15.8	11.6	9.29	5.54	4.10	3.32	2.80	2.43	1.93	1.592	0.856
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