

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-5.4

(12V 5.4Ah)

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

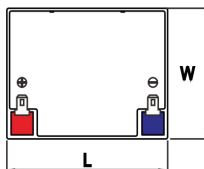
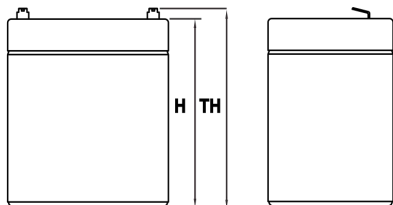
Unit:mm

Length 90±2mm / 3.54inch

Width 70±2mm / 2.76inch

Container Height 101±3mm / 3.98inch

Total Height 107±3mm / 4.21inch



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

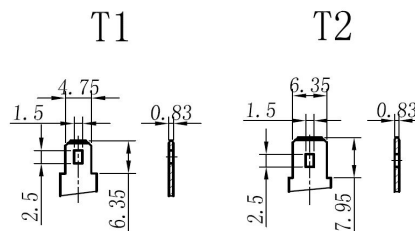
Unit:mm

Terminal Type: T1/T2

Weight

1.65kg

3.64lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



TN12-5.4

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	5.41Ah	20hr Rate(1.80V/cell)
	5.03Ah	10hr Rate(1.80V/cell)
	4.6Ah	5hr Rate(1.75V/cell)
	4.14Ah	3hr Rate(1.70V/cell)
	3.33Ah	1hr Rate(1.60V/cell)
Container Material	ABS (Flame-retardant ABS UL94-V0 is optional)	
Operating Temperature Range	Discharge	-20 ~ +50°C
	Charge	0 ~ +40°C
	Storage	-15 ~ +40°C
Capacity Effected by Temperature	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	65%
Charge	Float Voltage	2.23 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	Equalize Voltage	2.35 -2.40V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	Cycle Voltage	2.40 -2.50V/cell@25°C, Tem.Coefficient : -5mV/cell/°C
Max. Charging Current	1.62A (0.3C)	
Max. Discharge Current (5S)	81A	
Internal Resistance	30mΩ	
Self-Discharge	<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	10.4	7.2	6.0	5.2	4.2	3.2	2.65	1.61	1.23	1.01	0.86	0.74	0.59	0.485	0.267
1.80V/cell	12.7	8.6	6.9	5.9	4.6	3.5	2.85	1.72	1.30	1.07	0.90	0.77	0.61	0.503	0.270
1.75V/cell	15.1	9.8	7.6	6.4	4.9	3.7	2.99	1.80	1.34	1.10	0.92	0.79	0.63	0.513	0.273
1.70V/cell	17.1	10.8	8.3	6.8	5.2	3.9	3.13	1.87	1.38	1.13	0.94	0.81	0.64	0.522	0.278
1.67V/cell	18.9	11.6	8.7	7.2	5.4	4.0	3.26	1.92	1.42	1.15	0.96	0.83	0.65	0.529	0.281
1.60V/cell	19.8	12.1	9.1	7.4	5.5	4.1	3.33	1.98	1.45	1.18	0.98	0.84	0.66	0.538	0.283

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	19.6	13.8	11.5	10.0	8.1	6.3	5.15	3.15	2.41	1.99	1.69	1.47	1.17	0.979	0.541
1.80V/cell	23.8	16.3	13.2	11.2	8.9	6.8	5.51	3.33	2.52	2.08	1.76	1.53	1.21	1.011	0.544
1.75V/cell	27.8	18.2	14.4	12.1	9.4	7.2	5.77	3.46	2.59	2.13	1.79	1.55	1.23	1.021	0.545
1.70V/cell	31.2	19.9	15.4	12.9	9.8	7.4	5.98	3.58	2.67	2.17	1.83	1.58	1.25	1.031	0.552
1.67V/cell	33.9	21.1	16.1	13.5	10.2	7.6	6.18	3.66	2.72	2.21	1.86	1.61	1.26	1.041	0.557
1.60V/cell	35.1	21.7	16.6	13.7	10.3	7.7	6.27	3.75	2.77	2.25	1.89	1.63	1.28	1.051	0.557

□ 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

TN12-5.4

(12V 5.4Ah)

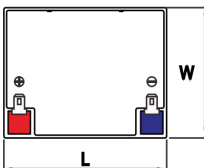
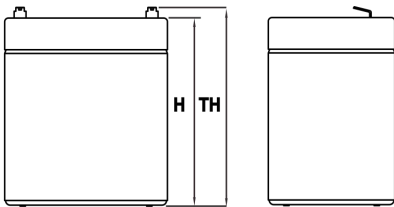
产品特点

- ◆ 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	90±2mm
宽	70±2mm
高	101±3mm
总高	107±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

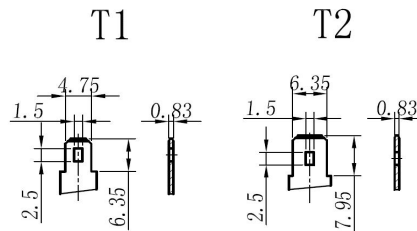
端子类型

单位:mm

端子类型 T1/T2

重量

1.65kg 3.64lbs



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



TN12-5.4

规格书

额定电压	12V	
容量(25°C)	5.41Ah	20hr Rate(1.80V/cell)
	5.03Ah	10hr Rate(1.80V/cell)
	4.6Ah	5hr Rate(1.75V/cell)
	4.14Ah	3hr Rate(1.70V/cell)
	3.33Ah	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	1.62A (0.3C)	
最大放电电流 (5S)	81A	
电阻	30mΩ	
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	10.4	7.2	6.0	5.2	4.2	3.2	2.65	1.61	1.23	1.01	0.86	0.74	0.59	0.485	0.267
1.80V/cell	12.7	8.6	6.9	5.9	4.6	3.5	2.85	1.72	1.30	1.07	0.90	0.77	0.61	0.503	0.270
1.75V/cell	15.1	9.8	7.6	6.4	4.9	3.7	2.99	1.80	1.34	1.10	0.92	0.79	0.63	0.513	0.273
1.70V/cell	17.1	10.8	8.3	6.8	5.2	3.9	3.13	1.87	1.38	1.13	0.94	0.81	0.64	0.522	0.278
1.67V/cell	18.9	11.6	8.7	7.2	5.4	4.0	3.26	1.92	1.42	1.15	0.96	0.83	0.65	0.529	0.281
1.60V/cell	19.8	12.1	9.1	7.4	5.5	4.1	3.33	1.98	1.45	1.18	0.98	0.84	0.66	0.538	0.283

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	19.6	13.8	11.5	10.0	8.1	6.3	5.15	3.15	2.41	1.99	1.69	1.47	1.17	0.979	0.541
1.80V/cell	23.8	16.3	13.2	11.2	8.9	6.8	5.51	3.33	2.52	2.08	1.76	1.53	1.21	1.011	0.544
1.75V/cell	27.8	18.2	14.4	12.1	9.4	7.2	5.77	3.46	2.59	2.13	1.79	1.55	1.23	1.021	0.545
1.70V/cell	31.2	19.9	15.4	12.9	9.8	7.4	5.98	3.58	2.67	2.17	1.83	1.58	1.25	1.031	0.552
1.67V/cell	33.9	21.1	16.1	13.5	10.2	7.6	6.18	3.66	2.72	2.21	1.86	1.61	1.26	1.041	0.557
1.60V/cell	35.1	21.7	16.6	13.7	10.3	7.7	6.27	3.75	2.77	2.25	1.89	1.63	1.28	1.051	0.557