

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-5.0B

(12V 5.0Ah)

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)

Dimension

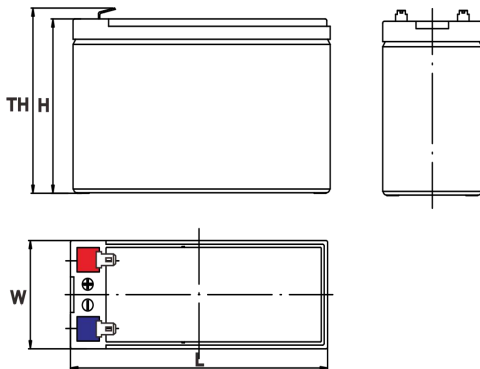
Unit:mm

Length 151±2mm / 5.94inch

Width 53±2mm / 2.09inch

Container Height 93±3mm / 3.66inch

Total Height 99±3mm / 3.9inch



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

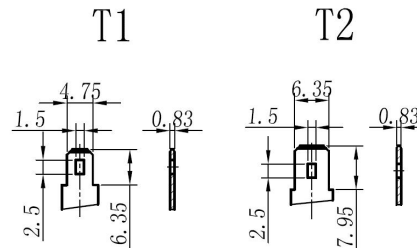
Unit:mm

Terminal Type: T1/T2

Weight

1.75kg

3.86lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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TN12-5.0B

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	5.00Ah	20hr Rate (1.80V/cell)
	4.65Ah	10hr Rate (1.80V/cell)
	4.26Ah	5hr Rate (1.75V/cell)
	3.84Ah	3hr Rate (1.70V/cell)
	3.09Ah	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	1.5A (0.3C)	
Max. Discharge Current (5S)	75A	
Internal Resistance	45mΩ	
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	9.6	6.7	5.5	4.8	3.8	3.0	2.46	1.50	1.14	0.94	0.80	0.69	0.55	0.449	0.248
1.80V/cell	11.8	8.0	6.4	5.4	4.3	3.3	2.64	1.59	1.20	0.99	0.83	0.72	0.57	0.465	0.250
1.75V/cell	14.0	9.0	7.1	5.9	4.5	3.5	2.78	1.66	1.24	1.02	0.85	0.73	0.58	0.474	0.253
1.70V/cell	15.9	10.0	7.6	6.3	4.8	3.6	2.89	1.73	1.28	1.05	0.87	0.75	0.59	0.482	0.257
1.67V/cell	17.5	10.7	8.1	6.7	5.0	3.7	3.01	1.78	1.32	1.07	0.89	0.77	0.60	0.489	0.261
1.60V/cell	18.4	11.2	8.4	6.9	5.1	3.8	3.09	1.84	1.35	1.09	0.91	0.78	0.61	0.497	0.262

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	18.1	12.7	10.6	9.3	7.5	5.8	4.76	2.92	2.23	1.84	1.57	1.36	1.09	0.906	0.501
1.80V/cell	22.0	15.1	12.2	10.4	8.2	6.3	5.10	3.09	2.33	1.93	1.63	1.41	1.12	0.932	0.504
1.75V/cell	25.7	16.9	13.3	11.2	8.7	6.6	5.34	3.20	2.40	1.97	1.66	1.44	1.14	0.945	0.505
1.70V/cell	28.9	18.4	14.3	12.0	9.1	6.8	5.53	3.31	2.47	2.01	1.69	1.47	1.15	0.955	0.511
1.67V/cell	31.4	19.5	14.9	12.5	9.4	7.1	5.73	3.39	2.52	2.04	1.72	1.49	1.17	0.963	0.516
1.60V/cell	32.5	20.1	15.4	12.7	9.6	7.2	5.81	3.47	2.56	2.08	1.75	1.51	1.18	0.975	0.516

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

TN12-5.0B

(12V 5.0Ah)

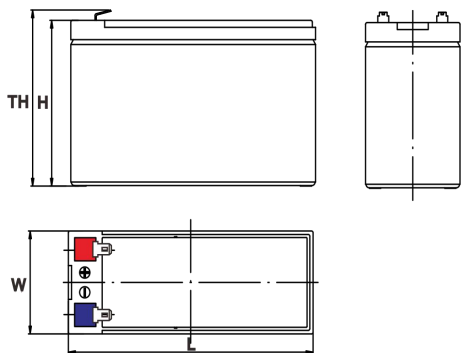
产品特点

- ◆ 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	53±2mm
高	93±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
- ◆ 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

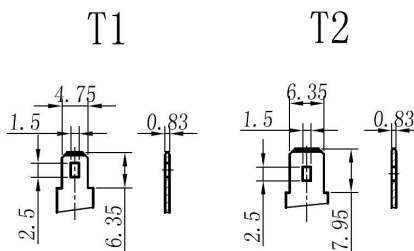
单位:mm

端子类型 T1/T2

重量

1.75kg

3.86lbs



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



TN12-5.0B

规格书

额定电压	12V	
容量(25°C)	5.00Ah	20hr Rate (1.80V/cell)
	4.65Ah	10hr Rate (1.80V/cell)
	4.26Ah	5hr Rate (1.75V/cell)
	3.84Ah	3hr Rate (1.70V/cell)
	3.09Ah	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	1.5A (0.3C)	
最大放电电流 (5S)	75A	
电阻	45mΩ	
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	9.6	6.7	5.5	4.8	3.8	3.0	2.46	1.50	1.14	0.94	0.80	0.69	0.55	0.449	0.248
1.80V/cell	11.8	8.0	6.4	5.4	4.3	3.3	2.64	1.59	1.20	0.99	0.83	0.72	0.57	0.465	0.250
1.75V/cell	14.0	9.0	7.1	5.9	4.5	3.5	2.78	1.66	1.24	1.02	0.85	0.73	0.58	0.474	0.253
1.70V/cell	15.9	10.0	7.6	6.3	4.8	3.6	2.89	1.73	1.28	1.05	0.87	0.75	0.59	0.482	0.257
1.67V/cell	17.5	10.7	8.1	6.7	5.0	3.7	3.01	1.78	1.32	1.07	0.89	0.77	0.60	0.489	0.261
1.60V/cell	18.4	11.2	8.4	6.9	5.1	3.8	3.09	1.84	1.35	1.09	0.91	0.78	0.61	0.497	0.262

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	18.1	12.7	10.6	9.3	7.5	5.8	4.76	2.92	2.23	1.84	1.57	1.36	1.09	0.906	0.501
1.80V/cell	22.0	15.1	12.2	10.4	8.2	6.3	5.10	3.09	2.33	1.93	1.63	1.41	1.12	0.932	0.504
1.75V/cell	25.7	16.9	13.3	11.2	8.7	6.6	5.34	3.20	2.40	1.97	1.66	1.44	1.14	0.945	0.505
1.70V/cell	28.9	18.4	14.3	12.0	9.1	6.8	5.53	3.31	2.47	2.01	1.69	1.47	1.15	0.955	0.511
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1.60V/cell	32.5	20.1	15.4	12.7	9.6	7.2	5.81	3.47	2.56	2.08	1.75	1.51	1.18	0.975	0.516