

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN6-6.0

(6V 6.0Ah)

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

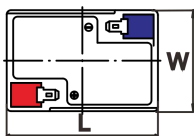
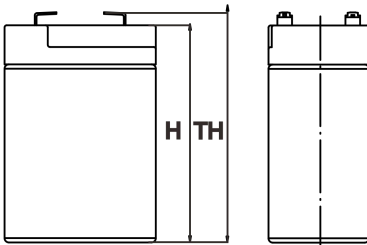
Unit:mm

Length 70±2mm / 2.76inch

Width 47±2mm / 1.85inch

Container Height 100±3mm / 3.94inch

Total Height 106±3mm / 4.17inch



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

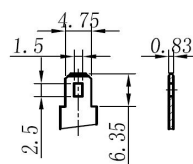
Terminal Type: T1/T2

Weight

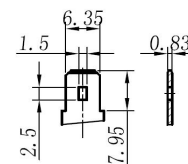
0.9kg

1.98lbs

T1



T2



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Tianneng Battery Group Co., Ltd.

Changxing Tianying Import & Export Co., Ltd.

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Motive Battery

Energy Storage Battery

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Motorcycle Battery



TN6-6.0

Specificaion

Nominal Voltage	6V	
Rated Capacity(25°C)	6.01Ah	20hr Rate(1.80V/cell)
	5.59Ah	10hr Rate(1.80V/cell)
	5.12Ah	5hr Rate(1.75V/cell)
	4.62Ah	3hr Rate(1.70V/cell)
	3.7Ah	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	1.8A (0.3C)	
Max. Discharge Current (5S)	90A	
Internal Resistance	16mΩ	
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	11.5	8.0	6.6	5.7	4.6	3.6	2.94	1.80	1.37	1.13	0.95	0.82	0.65	0.539	0.297
1.80V/cell	14.2	9.6	7.7	6.5	5.1	3.9	3.17	1.91	1.44	1.18	1.00	0.86	0.68	0.559	0.300
1.75V/cell	16.8	10.8	8.5	7.1	5.5	4.2	3.33	1.99	1.49	1.22	1.02	0.88	0.70	0.569	0.303
1.70V/cell	19.1	12.0	9.2	7.6	5.7	4.3	3.47	2.07	1.54	1.25	1.05	0.90	0.71	0.579	0.309
1.67V/cell	21.0	12.9	9.7	8.0	6.0	4.5	3.62	2.13	1.58	1.28	1.07	0.92	0.72	0.587	0.313
1.60V/cell	22.1	13.4	10.1	8.2	6.1	4.6	3.70	2.20	1.62	1.31	1.09	0.94	0.73	0.597	0.315

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	21.7	15.3	12.7	11.1	9.0	7.0	5.71	3.51	2.68	2.21	1.88	1.64	1.30	1.087	0.601
1.80V/cell	26.4	18.1	14.7	12.5	9.9	7.5	6.12	3.71	2.80	2.31	1.95	1.70	1.34	1.119	0.604
1.75V/cell	30.9	20.3	16.0	13.5	10.5	8.0	6.40	3.85	2.89	2.37	1.99	1.73	1.37	1.134	0.605
1.70V/cell	34.7	22.1	17.2	14.4	10.9	8.2	6.63	3.98	2.97	2.42	2.03	1.76	1.38	1.146	0.613
1.67V/cell	37.7	23.5	18.0	15.0	11.3	8.5	6.87	4.07	3.02	2.45	2.07	1.79	1.40	1.156	0.618
1.60V/cell	39.0	24.1	18.5	15.3	11.5	8.6	6.97	4.17	3.08	2.50	2.10	1.81	1.42	1.170	0.619

☐ 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

TN6-6.0

(6V 6.0Ah)

产品特点

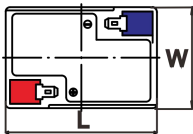
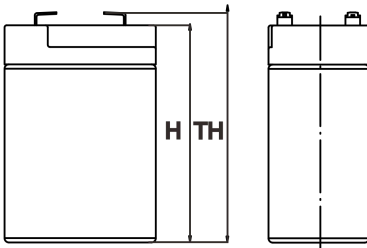
- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- ◆ 在25°C下，产品浮充设计寿命为3~5年，优良的深放电恢复能力
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



尺寸

单个尺寸

长 70±2mm
 宽 47±2mm
 高 100±3mm
 总高 106±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

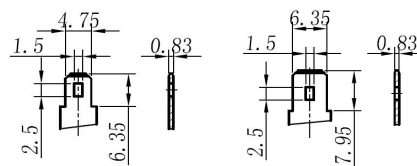
重量

0.9kg

1.98lbs

T1

T2



ISO9001 ISO14001 OHSAS18001

天能电池集团有限公司

长兴天能进出口有限公司

www.tiannenggroup.com

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内容如有改动，恕不另行通知

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动力电池

储能电池

备用电池

摩托车电池



TN6-6.0

规格书

额定电压	6V	
容量(25°C)	6.01Ah	20hr Rate(1.80V/cell)
	5.59Ah	10hr Rate(1.80V/cell)
	5.12Ah	5hr Rate(1.75V/cell)
	4.62Ah	3hr Rate(1.70V/cell)
	3.7Ah	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	1.8A (0.3C)	
最大放电电流 (5S)	90A	
电阻	16mΩ	
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	11.5	8.0	6.6	5.7	4.6	3.6	2.94	1.80	1.37	1.13	0.95	0.82	0.65	0.539	0.297
1.80V/cell	14.2	9.6	7.7	6.5	5.1	3.9	3.17	1.91	1.44	1.18	1.00	0.86	0.68	0.559	0.300
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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	21.7	15.3	12.7	11.1	9.0	7.0	5.71	3.51	2.68	2.21	1.88	1.64	1.30	1.087	0.601
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