

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN6-8.5

(6V 8.5Ah)

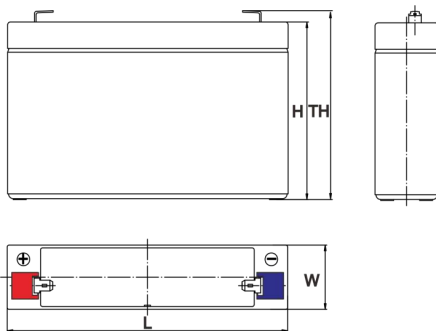
GENERAL FEATURES

- ♦ 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	34±2mm / 1.34inch
Container Height	94±3mm / 3.7inch
Total Height	100±3mm / 3.94inch



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

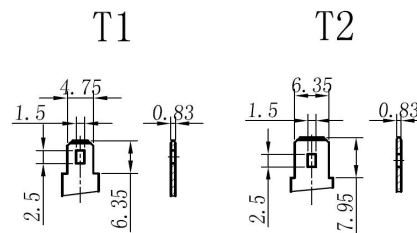
Unit:mm

Terminal Type: T1/T2

Weight

1.2kg

2.65lbs



This document is subject to change without prior notification

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TN6-8.5

Specificaion

Nominal Voltage	6V	
Rated Capacity(25°C)	8.51Ah	20hr Rate(1.80V/cell)
	7.92Ah	10hr Rate(1.80V/cell)
	7.36Ah	5hr Rate(1.75V/cell)
	6.79Ah	3hr Rate(1.70V/cell)
	5.42Ah	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	2.55A (0.3C)	
Max. Discharge Current (5S)	127.5A	
Internal Resistance	11mΩ	
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	16.2	12.4	10.3	8.9	6.9	5.1	4.33	2.57	2.01	1.63	1.33	1.15	0.93	0.768	0.421
1.80V/cell	21.7	15.9	12.4	10.5	8.1	6.0	4.86	2.80	2.16	1.75	1.43	1.23	0.98	0.792	0.425
1.75V/cell	24.5	17.5	13.6	11.3	8.4	6.2	5.09	2.90	2.20	1.79	1.47	1.26	1.00	0.813	0.429
1.70V/cell	27.0	19.0	14.5	11.9	8.8	6.5	5.25	2.97	2.26	1.83	1.50	1.29	1.01	0.829	0.437
1.67V/cell	29.7	20.5	15.4	12.6	9.3	6.6	5.37	3.02	2.35	1.89	1.54	1.32	1.03	0.846	0.443
1.60V/cell	32.8	22.3	16.5	13.5	9.8	6.9	5.42	3.15	2.43	1.95	1.59	1.35	1.04	0.855	0.445

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	29.6	23.0	19.2	16.8	13.1	9.8	8.26	4.91	3.86	3.14	2.57	2.24	1.81	1.522	0.835
1.80V/cell	39.3	29.0	22.9	19.5	15.2	11.2	9.20	5.33	4.13	3.34	2.75	2.39	1.92	1.562	0.842
1.75V/cell	43.4	31.3	24.7	20.8	15.7	11.6	9.58	5.51	4.18	3.40	2.81	2.45	1.94	1.602	0.849
1.70V/cell	46.4	33.4	26.0	21.7	16.2	12.0	9.85	5.63	4.29	3.49	2.88	2.49	1.97	1.632	0.864
1.67V/cell	50.6	35.7	27.4	22.9	17.0	12.2	10.00	5.68	4.46	3.59	2.95	2.54	2.00	1.662	0.874
1.60V/cell	54.5	37.9	28.9	24.1	17.8	12.6	10.01	5.90	4.57	3.69	3.03	2.59	2.01	1.682	0.878

☐ 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

TN6-8.5

(6V 8.5Ah)

产品特点

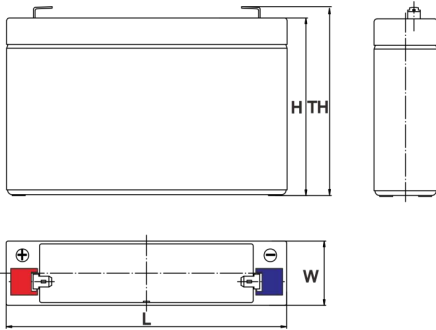
- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- ◆ 在25°C下，产品浮充设计寿命为3~5年，优良的深放电恢复能力
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



尺寸

单个尺寸

长	151±2mm
宽	34±2mm
高	94±3mm
总高	100±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

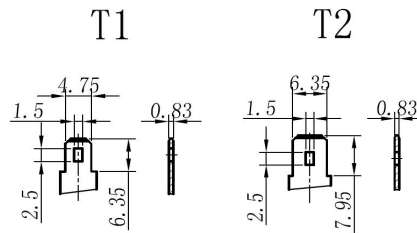
单位:mm

端子类型 T1/T2

重量

1.2kg

2.65lbs



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



TN6-8.5

规格书

额定电压	6V	
容量(25°C)	8.51Ah	20hr Rate(1.80V/cell)
	7.92Ah	10hr Rate(1.80V/cell)
	7.36Ah	5hr Rate(1.75V/cell)
	6.79Ah	3hr Rate(1.70V/cell)
	5.42Ah	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	11mΩ	
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	16.2	12.4	10.3	8.9	6.9	5.1	4.33	2.57	2.01	1.63	1.33	1.15	0.93	0.768	0.421
1.80V/cell	21.7	15.9	12.4	10.5	8.1	6.0	4.86	2.80	2.16	1.75	1.43	1.23	0.98	0.792	0.425
1.75V/cell	24.5	17.5	13.6	11.3	8.4	6.2	5.09	2.90	2.20	1.79	1.47	1.26	1.00	0.813	0.429
1.70V/cell	27.0	19.0	14.5	11.9	8.8	6.5	5.25	2.97	2.26	1.83	1.50	1.29	1.01	0.829	0.437
1.67V/cell	29.7	20.5	15.4	12.6	9.3	6.6	5.37	3.02	2.35	1.89	1.54	1.32	1.03	0.846	0.443
1.60V/cell	32.8	22.3	16.5	13.5	9.8	6.9	5.42	3.15	2.43	1.95	1.59	1.35	1.04	0.855	0.445

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	29.6	23.0	19.2	16.8	13.1	9.8	8.26	4.91	3.86	3.14	2.57	2.24	1.81	1.522	0.835
1.80V/cell	39.3	29.0	22.9	19.5	15.2	11.2	9.20	5.33	4.13	3.34	2.75	2.39	1.92	1.562	0.842
1.75V/cell	43.4	31.3	24.7	20.8	15.7	11.6	9.58	5.51	4.18	3.40	2.81	2.45	1.94	1.602	0.849
1.70V/cell	46.4	33.4	26.0	21.7	16.2	12.0	9.85	5.63	4.29	3.49	2.88	2.49	1.97	1.632	0.864
1.67V/cell	50.6	35.7	27.4	22.9	17.0	12.2	10.00	5.68	4.46	3.59	2.95	2.54	2.00	1.662	0.874
1.60V/cell	54.5	37.9	28.9	24.1	17.8	12.6	10.01	5.90	4.57	3.69	3.03	2.59	2.01	1.682	0.878