

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



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

# TN6-4.5

(6V 4.5Ah)

### 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

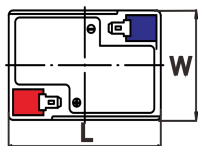
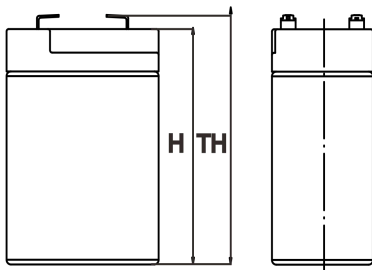
Unit:mm

Length 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
- ◆ 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

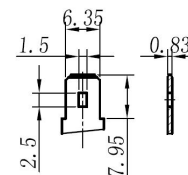
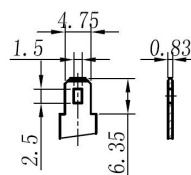
### Weight

0.75kg

1.65lbs

T1

T2



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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## TN6-4.5

### Specification

<b>Nominal Voltage</b>	6V	
<b>Rated Capacity(25°C)</b>	4.50Ah	20hr Rate (1.80V/cell)
	4.19Ah	10hr Rate (1.80V/cell)
	3.84Ah	5hr Rate (1.75V/cell)
	3.47Ah	3hr Rate (1.70V/cell)
	2.77Ah	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>	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	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>	1.35A ( 0.3C)	
<b>Max. Discharge Current (5S)</b>	67.5A	
<b>Internal Resistance</b>	25mΩ	
<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	8.6	6.0	5.0	4.3	3.5	2.7	2.20	1.35	1.03	0.84	0.72	0.62	0.49	0.404	0.223
1.80V/cell	10.6	7.2	5.8	4.9	3.8	2.9	2.38	1.43	1.08	0.89	0.75	0.64	0.51	0.419	0.225
1.75V/cell	12.6	8.1	6.4	5.3	4.1	3.1	2.50	1.49	1.12	0.91	0.77	0.66	0.52	0.427	0.227
1.70V/cell	14.3	9.0	6.9	5.7	4.3	3.2	2.61	1.55	1.16	0.94	0.79	0.68	0.53	0.434	0.231
1.67V/cell	15.7	9.6	7.3	6.0	4.5	3.4	2.71	1.60	1.19	0.96	0.80	0.69	0.54	0.440	0.234
1.60V/cell	16.5	10.0	7.6	6.2	4.6	3.5	2.77	1.65	1.21	0.98	0.82	0.70	0.55	0.447	0.236

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	16.3	11.5	9.6	8.4	6.7	5.2	4.28	2.63	2.01	1.66	1.41	1.23	0.98	0.816	0.450
1.80V/cell	19.8	13.6	11.0	9.4	7.4	5.7	4.58	2.78	2.10	1.73	1.46	1.27	1.01	0.839	0.452
1.75V/cell	23.2	15.2	12.0	10.1	7.9	6.0	4.80	2.88	2.16	1.78	1.49	1.30	1.03	0.850	0.453
1.70V/cell	26.0	16.6	12.9	10.8	8.2	6.2	4.97	2.98	2.22	1.81	1.52	1.32	1.04	0.859	0.459
1.67V/cell	28.3	17.6	13.4	11.2	8.5	6.4	5.16	3.05	2.27	1.84	1.55	1.34	1.05	0.867	0.463
1.60V/cell	29.2	18.1	13.9	11.4	8.6	6.4	5.23	3.13	2.31	1.87	1.57	1.36	1.07	0.877	0.464

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

# TN6-4.5

(6V 4.5Ah)

### 产品特点

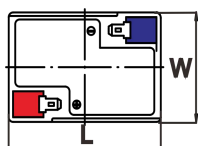
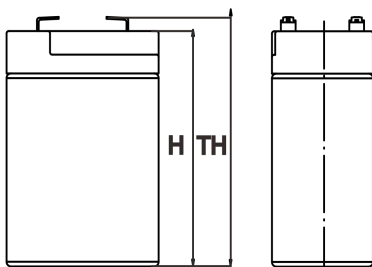
- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- ◆ 在25°C下，产品浮充设计寿命为3~5年，优良的深放电恢复能力
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



### 尺寸

单个尺寸

长	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
- ◆ 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

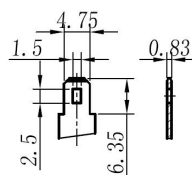
端子类型 T1/T2

### 重量

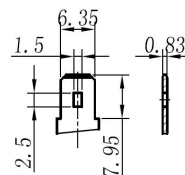
0.75kg

1.65lbs

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



## TN6-4.5

### 规格书

额定电压	6V	
容量(25°C)	4.50Ah	20hr Rate (1.80V/cell)
	4.19Ah	10hr Rate (1.80V/cell)
	3.84Ah	5hr Rate (1.75V/cell)
	3.47Ah	3hr Rate (1.70V/cell)
	2.77Ah	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	1.35A (0.3C)	
最大放电电流 (5S)	67.5A	
电阻	25mΩ	
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	8.6	6.0	5.0	4.3	3.5	2.7	2.20	1.35	1.03	0.84	0.72	0.62	0.49	0.404	0.223
1.80V/cell	10.6	7.2	5.8	4.9	3.8	2.9	2.38	1.43	1.08	0.89	0.75	0.64	0.51	0.419	0.225
1.75V/cell	12.6	8.1	6.4	5.3	4.1	3.1	2.50	1.49	1.12	0.91	0.77	0.66	0.52	0.427	0.227
1.70V/cell	14.3	9.0	6.9	5.7	4.3	3.2	2.61	1.55	1.16	0.94	0.79	0.68	0.53	0.434	0.231
1.67V/cell	15.7	9.6	7.3	6.0	4.5	3.4	2.71	1.60	1.19	0.96	0.80	0.69	0.54	0.440	0.234
1.60V/cell	16.5	10.0	7.6	6.2	4.6	3.5	2.77	1.65	1.21	0.98	0.82	0.70	0.55	0.447	0.236

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	16.3	11.5	9.6	8.4	6.7	5.2	4.28	2.63	2.01	1.66	1.41	1.23	0.98	0.816	0.450
1.80V/cell	19.8	13.6	11.0	9.4	7.4	5.7	4.58	2.78	2.10	1.73	1.46	1.27	1.01	0.839	0.452
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