

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-6.5

(12V 6.5Ah)

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

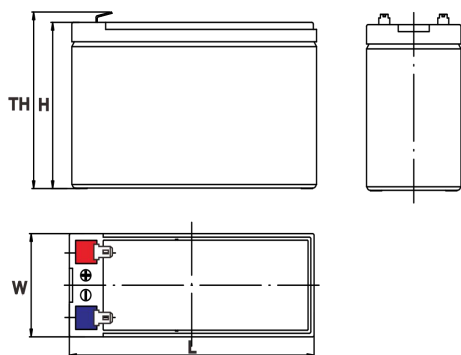
Unit:mm

Length 151±2mm / 5.94inch

Width 65.5±2mm / 2.58inch

Container Height 93.5±3mm / 3.68inch

Total Height 99.5±3mm / 3.92inch



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

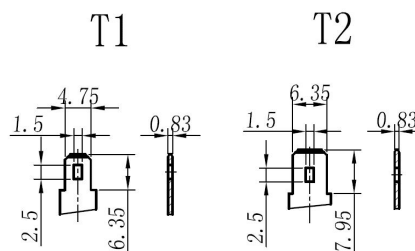
Unit:mm

Terminal Type: T1/T2

Weight

2.06kg

4.54lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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TN12-6.5

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	6.50Ah	20hr Rate (1.80V/cell)
	6.06Ah	10hr Rate (1.80V/cell)
	5.63Ah	5hr Rate (1.75V/cell)
	5.18Ah	3hr Rate (1.70V/cell)
	4.14Ah	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	1.95A (0.3C)	
Max. Discharge Current (5S)	97.5A	
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	12.4	9.5	7.9	6.8	5.3	3.9	3.32	1.96	1.53	1.25	1.02	0.88	0.71	0.587	0.322
1.80V/cell	16.6	12.1	9.5	8.1	6.2	4.6	3.71	2.14	1.65	1.33	1.10	0.94	0.75	0.606	0.325
1.75V/cell	18.7	13.3	10.4	8.7	6.5	4.8	3.89	2.22	1.68	1.36	1.13	0.97	0.76	0.622	0.328
1.70V/cell	20.6	14.5	11.1	9.1	6.7	4.9	4.01	2.27	1.73	1.40	1.15	0.99	0.78	0.634	0.334
1.67V/cell	22.7	15.7	11.8	9.7	7.1	5.1	4.10	2.31	1.81	1.45	1.18	1.01	0.79	0.647	0.339
1.60V/cell	25.1	17.0	12.6	10.3	7.5	5.3	4.14	2.41	1.86	1.49	1.22	1.03	0.80	0.654	0.341

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	22.6	17.6	14.7	12.8	10.0	7.5	6.32	3.75	2.95	2.40	1.97	1.71	1.39	1.161	0.638
1.80V/cell	30.1	22.2	17.5	14.9	11.7	8.6	7.03	4.07	3.15	2.55	2.10	1.83	1.47	1.191	0.644
1.75V/cell	33.2	24.0	18.9	15.9	12.0	8.8	7.33	4.20	3.20	2.60	2.15	1.87	1.49	1.231	0.649
1.70V/cell	35.5	25.5	19.9	16.6	12.4	9.2	7.53	4.30	3.28	2.67	2.20	1.91	1.51	1.251	0.661
1.67V/cell	38.6	27.3	21.0	17.5	13.0	9.3	7.65	4.34	3.41	2.75	2.25	1.94	1.53	1.271	0.669
1.60V/cell	41.6	29.0	22.1	18.5	13.6	9.7	7.68	4.50	3.50	2.82	2.32	1.98	1.54	1.281	0.672

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

TN12-6.5

(12V 6.5Ah)

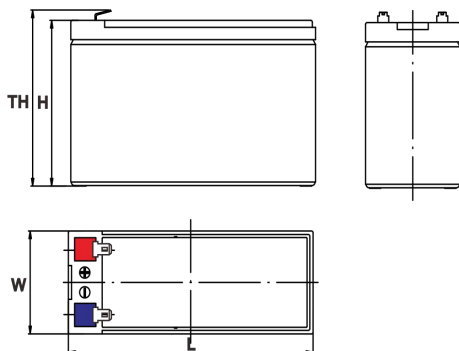
产品特点

- ◆ 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	65.5±2mm
高	93.5±3mm
总高	99.5±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

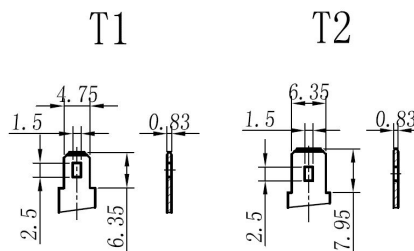
单位:mm

端子类型 T1/T2

重量

2.06kg

4.54lbs



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



TN12-6.5

规格书

额定电压	12V	
容量(25°C)	6.50Ah	20hr Rate (1.80V/cell)
	6.06Ah	10hr Rate (1.80V/cell)
	5.63Ah	5hr Rate (1.75V/cell)
	5.18Ah	3hr Rate (1.70V/cell)
	4.14Ah	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	1.95A (0.3C)	
最大放电电流 (5S)	97.5A	
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	12.4	9.5	7.9	6.8	5.3	3.9	3.32	1.96	1.53	1.25	1.02	0.88	0.71	0.587	0.322
1.80V/cell	16.6	12.1	9.5	8.1	6.2	4.6	3.71	2.14	1.65	1.33	1.10	0.94	0.75	0.606	0.325
1.75V/cell	18.7	13.3	10.4	8.7	6.5	4.8	3.89	2.22	1.68	1.36	1.13	0.97	0.76	0.622	0.328
1.70V/cell	20.6	14.5	11.1	9.1	6.7	4.9	4.01	2.27	1.73	1.40	1.15	0.99	0.78	0.634	0.334
1.67V/cell	22.7	15.7	11.8	9.7	7.1	5.1	4.10	2.31	1.81	1.45	1.18	1.01	0.79	0.647	0.339
1.60V/cell	25.1	17.0	12.6	10.3	7.5	5.3	4.14	2.41	1.86	1.49	1.22	1.03	0.80	0.654	0.341

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	22.6	17.6	14.7	12.8	10.0	7.5	6.32	3.75	2.95	2.40	1.97	1.71	1.39	1.161	0.638
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