

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-7.0

(12V 7.0Ah)

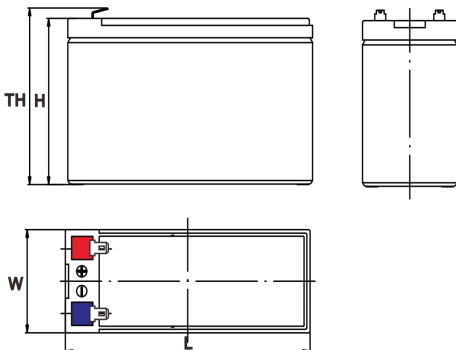
GENERAL FEATURES

- ◆ 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	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

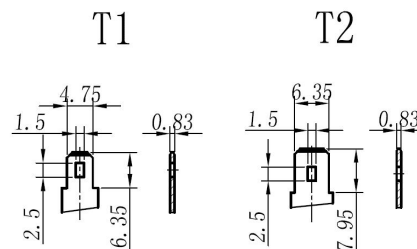
Unit:mm

Terminal Type: T1/T2

Weight

2.18kg

4.81lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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TN12-7.0

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	7.00Ah	20hr Rate (1.80V/cell)
	6.54Ah	10hr Rate (1.80V/cell)
	5.89Ah	5hr Rate (1.75V/cell)
	5.33Ah	3hr Rate (1.70V/cell)
	4.32Ah	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	2.1A (0.3C)	
Max. Discharge Current (5S)	105A	
Internal Resistance	28mΩ	
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	16.0	11.7	10.0	8.5	6.2	4.6	3.65	2.17	1.62	1.32	1.12	0.96	0.76	0.627	0.343
1.80V/cell	19.2	13.7	11.3	9.2	6.7	4.9	3.89	2.27	1.68	1.37	1.16	1.00	0.79	0.654	0.350
1.75V/cell	21.5	14.9	12.0	9.7	6.9	5.1	4.04	2.34	1.74	1.40	1.18	1.02	0.80	0.664	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.2	5.2	4.11	2.40	1.78	1.43	1.21	1.04	0.82	0.673	0.361
1.67V/cell	25.5	16.8	13.4	10.6	7.4	5.4	4.23	2.44	1.80	1.45	1.23	1.05	0.83	0.681	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.6	5.5	4.32	2.50	1.84	1.48	1.25	1.07	0.85	0.691	0.371

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	30.3	22.3	19.2	16.4	12.0	8.9	7.10	4.23	3.17	2.59	2.20	1.91	1.52	1.261	0.695
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.4	7.53	4.42	3.30	2.69	2.27	1.97	1.57	1.311	0.705
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.7	7.80	4.55	3.37	2.74	2.31	2.00	1.59	1.331	0.717
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.9	7.89	4.61	3.42	2.78	2.34	2.03	1.61	1.331	0.719
1.67V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.03	4.65	3.45	2.80	2.36	2.05	1.62	1.341	0.721
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.14	4.73	3.50	2.83	2.39	2.07	1.63	1.351	0.729

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

TN12-7.0

(12V 7.0Ah)

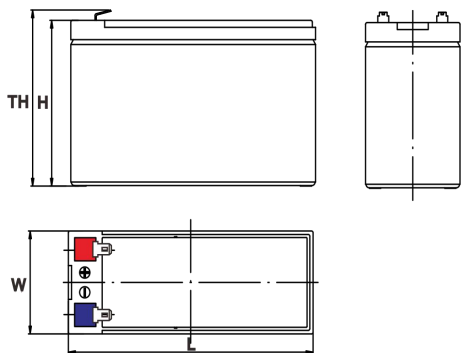
产品特点

- ◆ 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，抗腐蚀性能力出众
- ◆ 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

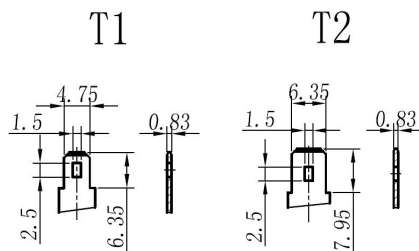
单位:mm

端子类型 T1/T2

重量

2.18kg

4.81lbs



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



TN12-7.0

规格书

额定电压	12V	
容量(25°C)	7.00Ah	20hr Rate (1.80V/cell)
	6.54Ah	10hr Rate (1.80V/cell)
	5.89Ah	5hr Rate (1.75V/cell)
	5.33Ah	3hr Rate (1.70V/cell)
	4.32Ah	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	2.1A (0.3C)	
最大放电电流 (5S)	105A	
电阻	28mΩ	
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	16.0	11.7	10.0	8.5	6.2	4.6	3.65	2.17	1.62	1.32	1.12	0.96	0.76	0.627	0.343
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1.75V/cell	21.5	14.9	12.0	9.7	6.9	5.1	4.04	2.34	1.74	1.40	1.18	1.02	0.80	0.664	0.357
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1.60V/cell	26.8	17.6	13.8	10.9	7.6	5.5	4.32	2.50	1.84	1.48	1.25	1.07	0.85	0.691	0.371

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	30.3	22.3	19.2	16.4	12.0	8.9	7.10	4.23	3.17	2.59	2.20	1.91	1.52	1.261	0.695
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.4	7.53	4.42	3.30	2.69	2.27	1.97	1.57	1.311	0.705
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1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.14	4.73	3.50	2.83	2.39	2.07	1.63	1.351	0.729