

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-10

(12V 10Ah)

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)



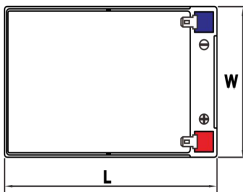
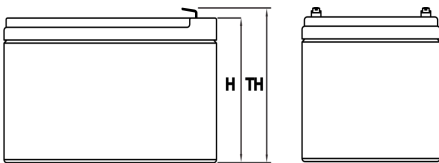
Application

- ♦ 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

Dimension

Unit:mm

Length	151±2mm / 5.94inch
Width	99.5±2mm / 3.92inch
Container Height	95.5±3mm / 3.76inch
Total Height	101.5±3mm / 4inch



Terminal

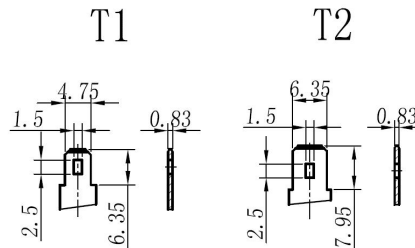
Unit:mm

Terminal Type: T1/T2

Weight

3.25kg

7.16lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

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Reserve Battery

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TN12-10

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	10.0Ah	20hr Rate (1.80V/cell)
	9.3Ah	10hr Rate (1.80V/cell)
	8.6Ah	5hr Rate (1.75V/cell)
	8.0Ah	3hr Rate (1.70V/cell)
	6.4Ah	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	3A (0.3C)	
Max. Discharge Current (5S)	150A	
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	21.0	14.6	12.1	10.5	8.1	6.1	5.11	3.01	2.36	1.92	1.56	1.35	1.09	0.903	0.495
1.80V/cell	25.6	18.7	14.6	12.4	9.6	7.0	5.71	3.30	2.54	2.05	1.68	1.45	1.16	0.931	0.501
1.75V/cell	28.8	20.5	16.0	13.3	9.9	7.3	5.98	3.42	2.59	2.10	1.73	1.49	1.18	0.956	0.506
1.70V/cell	31.7	22.4	17.1	14.0	10.3	7.6	6.17	3.50	2.66	2.15	1.77	1.53	1.19	0.975	0.515
1.67V/cell	35.0	24.2	18.1	14.9	10.9	7.8	6.31	3.55	2.77	2.22	1.82	1.56	1.21	0.995	0.522
1.60V/cell	38.6	26.2	19.4	15.8	11.5	8.1	6.37	3.70	2.86	2.29	1.88	1.59	1.22	1.006	0.525

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	34.8	27.0	22.6	19.7	15.4	11.5	9.71	5.79	4.54	3.70	3.03	2.63	2.13	1.792	0.982
1.80V/cell	46.2	34.1	26.9	23.0	17.9	13.2	10.81	6.27	4.85	3.93	3.23	2.81	2.25	1.842	0.990
1.75V/cell	51.1	36.9	29.1	24.5	18.5	13.6	11.31	6.48	4.92	4.00	3.31	2.88	2.29	1.882	0.999
1.70V/cell	54.7	39.3	30.6	25.6	19.1	14.1	11.61	6.63	5.06	4.10	3.38	2.94	2.32	1.922	1.016
1.67V/cell	59.5	42.0	32.3	26.9	20.0	14.3	11.81	6.68	5.25	4.23	3.47	2.99	2.35	1.962	1.028
1.60V/cell	64.1	44.6	34.0	28.4	21.0	14.8	11.81	6.94	5.39	4.35	3.57	3.04	2.37	1.982	1.033

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

TN12-10

(12V 10Ah)

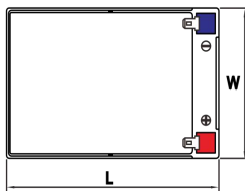
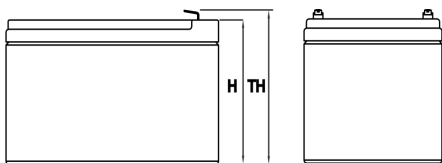
产品特点

- ◆ 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	99.5±2mm
高	95.5±3mm
总高	101.5±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

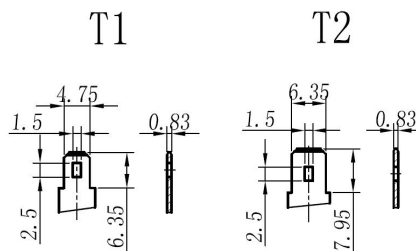
单位:mm

端子类型 T1/T2

重量

3.25kg

7.16lbs



ISO9001 ISO14001 OHSAS1800

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



TN12-10

规格书

额定电压	12V	
容量(25°C)	10.0Ah	20hr Rate (1.80V/cell)
	9.3Ah	10hr Rate (1.80V/cell)
	8.6Ah	5hr Rate (1.75V/cell)
	8.0Ah	3hr Rate (1.70V/cell)
	6.4Ah	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	3A (0.3C)	
最大放电电流 (5S)	150A	
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	21.0	14.6	12.1	10.5	8.1	6.1	5.11	3.01	2.36	1.92	1.56	1.35	1.09	0.903	0.495
1.80V/cell	25.6	18.7	14.6	12.4	9.6	7.0	5.71	3.30	2.54	2.05	1.68	1.45	1.16	0.931	0.501
1.75V/cell	28.8	20.5	16.0	13.3	9.9	7.3	5.98	3.42	2.59	2.10	1.73	1.49	1.18	0.956	0.506
1.70V/cell	31.7	22.4	17.1	14.0	10.3	7.6	6.17	3.50	2.66	2.15	1.77	1.53	1.19	0.975	0.515
1.67V/cell	35.0	24.2	18.1	14.9	10.9	7.8	6.31	3.55	2.77	2.22	1.82	1.56	1.21	0.995	0.522
1.60V/cell	38.6	26.2	19.4	15.8	11.5	8.1	6.37	3.70	2.86	2.29	1.88	1.59	1.22	1.006	0.525

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	34.8	27.0	22.6	19.7	15.4	11.5	9.71	5.79	4.54	3.70	3.03	2.63	2.13	1.792	0.982
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