

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-4.0B

(12V 4.0Ah)

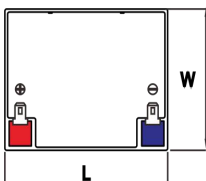
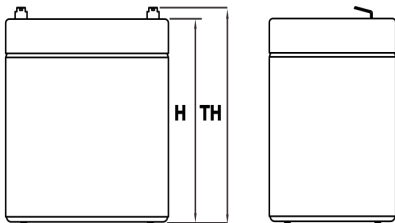
GENERAL FEATURES

- ◆ 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	90±2mm / 3.54inch
Width	70±2mm / 2.76inch
Container Height	101±3mm / 3.98inch
Total Height	107±3mm / 4.21inch



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

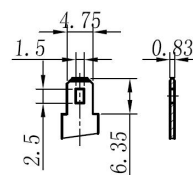
Terminal Type: T1/T2

Weight

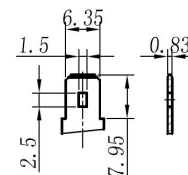
1.45kg

3.2lbs

T1



T2



This document is subject to change without prior notification

Motive Battery

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TN12-4.0B

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	4.00Ah	20hr Rate (1.80V/cell)
	3.72Ah	10hr Rate (1.80V/cell)
	3.41Ah	5hr Rate (1.75V/cell)
	3.08Ah	3hr Rate (1.70V/cell)
	2.47Ah	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	1.2A (0.3C)	
Max. Discharge Current (5S)	60A	
Internal Resistance	40mΩ	
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	7.7	5.4	4.4	3.8	3.1	2.4	1.96	1.20	0.91	0.75	0.64	0.55	0.44	0.359	0.198
1.80V/cell	9.4	6.4	5.1	4.3	3.4	2.6	2.11	1.27	0.96	0.79	0.66	0.57	0.45	0.372	0.200
1.75V/cell	11.2	7.2	5.7	4.7	3.6	2.8	2.22	1.33	0.99	0.81	0.68	0.59	0.46	0.379	0.202
1.70V/cell	12.7	8.0	6.1	5.1	3.8	2.9	2.31	1.38	1.03	0.83	0.70	0.60	0.47	0.386	0.206
1.67V/cell	14.0	8.6	6.5	5.3	4.0	3.0	2.42	1.42	1.06	0.85	0.71	0.61	0.48	0.391	0.208
1.60V/cell	14.7	8.9	6.7	5.5	4.1	3.1	2.47	1.47	1.08	0.87	0.73	0.63	0.49	0.398	0.210

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	14.5	10.2	8.5	7.4	6.0	4.6	3.81	2.34	1.79	1.47	1.26	1.09	0.87	0.725	0.400
1.80V/cell	17.6	12.0	9.8	8.3	6.6	5.0	4.07	2.47	1.87	1.54	1.30	1.13	0.90	0.746	0.402
1.75V/cell	20.6	13.5	10.7	9.0	7.0	5.3	4.26	2.56	1.92	1.58	1.33	1.15	0.91	0.756	0.403
1.70V/cell	23.1	14.7	11.4	9.6	7.3	5.5	4.42	2.65	1.97	1.61	1.35	1.17	0.92	0.764	0.408
1.67V/cell	25.1	15.6	12.0	10.0	7.5	5.7	4.57	2.71	2.01	1.63	1.38	1.19	0.93	0.771	0.412
1.60V/cell	26.0	16.1	12.3	10.2	7.7	5.7	4.64	2.78	2.05	1.66	1.40	1.21	0.95	0.780	0.412

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

TN12-4.0B

(12V 4.0Ah)

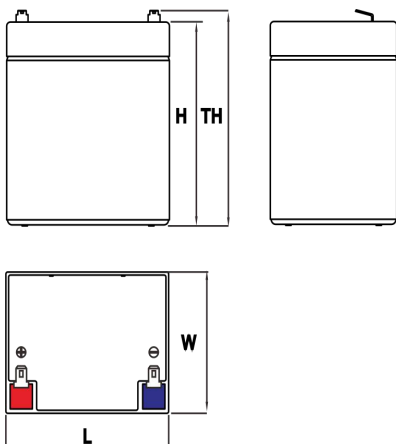
产品特点

- ◆ 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	90±2mm
宽	70±2mm
高	101±3mm
总高	107±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

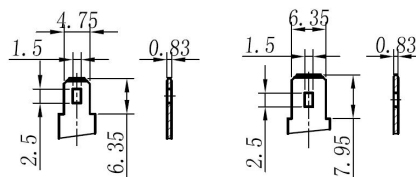
重量

1.45kg

3.2lbs

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



TN12-4.0B

规格书

额定电压	12V	
容量(25°C)	4.00Ah	20hr Rate (1.80V/cell)
	3.72Ah	10hr Rate (1.80V/cell)
	3.41Ah	5hr Rate (1.75V/cell)
	3.08Ah	3hr Rate (1.70V/cell)
	2.47Ah	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	1.2A (0.3C)	
最大放电电流 (5S)	60A	
电阻	40mΩ	
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	7.7	5.4	4.4	3.8	3.1	2.4	1.96	1.20	0.91	0.75	0.64	0.55	0.44	0.359	0.198
1.80V/cell	9.4	6.4	5.1	4.3	3.4	2.6	2.11	1.27	0.96	0.79	0.66	0.57	0.45	0.372	0.200
1.75V/cell	11.2	7.2	5.7	4.7	3.6	2.8	2.22	1.33	0.99	0.81	0.68	0.59	0.46	0.379	0.202
1.70V/cell	12.7	8.0	6.1	5.1	3.8	2.9	2.31	1.38	1.03	0.83	0.70	0.60	0.47	0.386	0.206
1.67V/cell	14.0	8.6	6.5	5.3	4.0	3.0	2.42	1.42	1.06	0.85	0.71	0.61	0.48	0.391	0.208
1.60V/cell	14.7	8.9	6.7	5.5	4.1	3.1	2.47	1.47	1.08	0.87	0.73	0.63	0.49	0.398	0.210

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	14.5	10.2	8.5	7.4	6.0	4.6	3.81	2.34	1.79	1.47	1.26	1.09	0.87	0.725	0.400
1.80V/cell	17.6	12.0	9.8	8.3	6.6	5.0	4.07	2.47	1.87	1.54	1.30	1.13	0.90	0.746	0.402
1.75V/cell	20.6	13.5	10.7	9.0	7.0	5.3	4.26	2.56	1.92	1.58	1.33	1.15	0.91	0.756	0.403
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