

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-12

(12V 12Ah)

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)



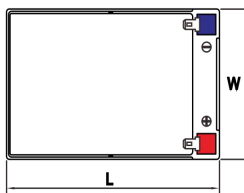
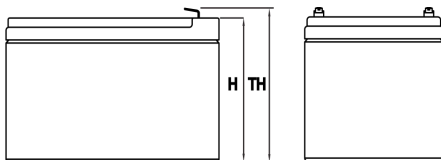
Application

- ◆ 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

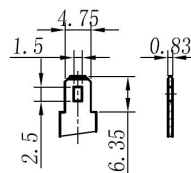
Terminal Type: T1/T2

Weight

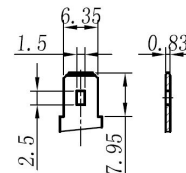
3.6kg

7.94lbs

T1



T2



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



TN12-12

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	12.0Ah	20hr Rate (1.80V/cell)
	11.2Ah	10hr Rate (1.80V/cell)
	10.3Ah	5hr Rate (1.75V/cell)
	9.3Ah	3hr Rate (1.70V/cell)
	7.60Ah	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	3.6A (0.3C)	
Max. Discharge Current (5S)	180A	
Internal Resistance	14mΩ	
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	22.9	15.2	12.5	11.0	9.0	7.1	5.92	3.63	2.74	2.25	1.91	1.65	1.31	1.081	0.595
1.80V/cell	27.4	18.2	14.7	12.6	10.1	7.8	6.40	3.90	2.92	2.40	2.01	1.72	1.35	1.121	0.600
1.75V/cell	32.8	20.9	16.4	13.9	10.8	8.4	6.77	4.06	3.02	2.46	2.06	1.77	1.39	1.141	0.607
1.70V/cell	38.1	23.3	18.0	15.1	11.5	8.8	7.06	4.20	3.10	2.51	2.11	1.81	1.41	1.161	0.618
1.67V/cell	42.0	25.3	19.3	16.2	12.1	9.2	7.31	4.33	3.19	2.58	2.15	1.84	1.43	1.181	0.626
1.60V/cell	46.3	27.4	20.8	17.1	12.8	9.6	7.60	4.45	3.26	2.64	2.20	1.88	1.46	1.201	0.630

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	42.6	28.4	23.6	20.8	17.1	13.5	11.31	6.97	5.27	4.33	3.69	3.20	2.56	2.142	1.181
1.80V/cell	49.5	33.4	27.2	23.6	19.0	14.7	12.11	7.42	5.59	4.59	3.86	3.33	2.65	2.212	1.191
1.75V/cell	58.9	37.9	30.0	25.8	20.2	15.7	12.71	7.70	5.76	4.68	3.95	3.42	2.71	2.262	1.201
1.70V/cell	67.4	41.7	32.7	27.8	21.4	16.3	13.21	7.95	5.89	4.78	4.04	3.48	2.75	2.292	1.221
1.67V/cell	73.2	44.6	34.7	29.5	22.4	16.9	13.61	8.18	6.03	4.88	4.11	3.54	2.79	2.322	1.231
1.60V/cell	79.3	47.5	36.6	30.6	23.3	17.5	14.11	8.34	6.14	4.99	4.18	3.61	2.84	2.352	1.241

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

TN12-12

(12V 12Ah)

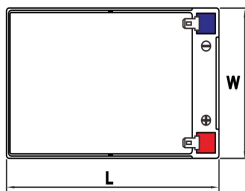
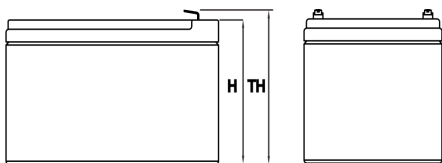
产品特点

- ◆ 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

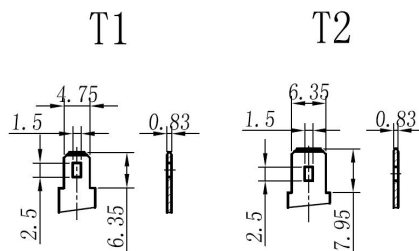
单位:mm

端子类型 T1/T2

重量

3.6kg

7.94lbs



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



TN12-12

规格书

额定电压	12V	
容量(25°C)	12.0Ah	20hr Rate (1.80V/cell)
	11.2Ah	10hr Rate (1.80V/cell)
	10.3Ah	5hr Rate (1.75V/cell)
	9.3Ah	3hr Rate (1.70V/cell)
	7.60Ah	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	3.6A (0.3C)	
最大放电电流 (5S)	180A	
电阻	14mΩ	
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	22.9	15.2	12.5	11.0	9.0	7.1	5.92	3.63	2.74	2.25	1.91	1.65	1.31	1.081	0.595
1.80V/cell	27.4	18.2	14.7	12.6	10.1	7.8	6.40	3.90	2.92	2.40	2.01	1.72	1.35	1.121	0.600
1.75V/cell	32.8	20.9	16.4	13.9	10.8	8.4	6.77	4.06	3.02	2.46	2.06	1.77	1.39	1.141	0.607
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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	42.6	28.4	23.6	20.8	17.1	13.5	11.31	6.97	5.27	4.33	3.69	3.20	2.56	2.142	1.181
1.80V/cell	49.5	33.4	27.2	23.6	19.0	14.7	12.11	7.42	5.59	4.59	3.86	3.33	2.65	2.212	1.191
1.75V/cell	58.9	37.9	30.0	25.8	20.2	15.7	12.71	7.70	5.76	4.68	3.95	3.42	2.71	2.262	1.201
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1.60V/cell	79.3	47.5	36.6	30.6	23.3	17.5	14.11	8.34	6.14	4.99	4.18	3.61	2.84	2.352	1.241