

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-7.2

(12V 7.2Ah)

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

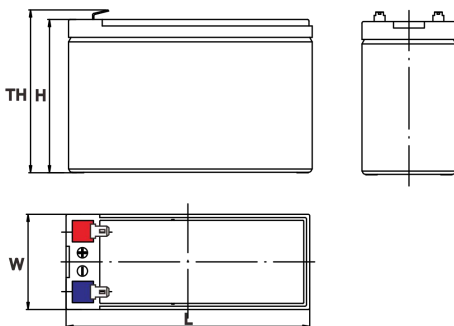
Unit:mm

Length 151±2mm / 5.94inch

Width 65±2mm / 2.56inch

Container Height 93.5±3mm / 3.68inch

Total Height 99±3mm / 3.9inch



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

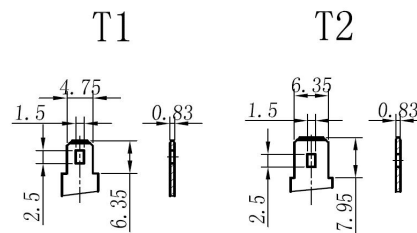
Unit:mm

Terminal Type: T1/T2

Weight

2.35kg

5.2lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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TN12-7.2

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	20hr Rate	20hr Rate (1.80V/cell)
	6.73Ah	10hr Rate (1.80V/cell)
	6.14Ah	5hr Rate (1.75V/cell)
	5.51Ah	3hr Rate (1.70V/cell)
	4.51Ah	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	2.16A (0.3C)	
Max. Discharge Current (5S)	108A	
Internal Resistance	18mΩ	
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	16.6	12.7	10.2	8.9	6.5	4.9	3.88	2.24	1.70	1.39	1.17	1.01	0.80	0.659	0.355
1.80V/cell	19.8	14.0	11.3	9.5	7.0	5.1	4.12	2.35	1.75	1.43	1.21	1.04	0.82	0.673	0.360
1.75V/cell	22.1	15.3	12.1	10.0	7.3	5.3	4.23	2.44	1.80	1.46	1.23	1.06	0.84	0.683	0.367
1.70V/cell	24.1	16.4	12.9	10.5	7.6	5.5	4.36	2.49	1.84	1.49	1.25	1.07	0.85	0.693	0.372
1.67V/cell	26.2	17.3	13.5	11.0	7.8	5.6	4.44	2.53	1.87	1.51	1.27	1.09	0.86	0.700	0.375
1.60V/cell	27.6	18.0	13.9	11.2	7.9	5.7	4.51	2.57	1.90	1.53	1.29	1.10	0.87	0.706	0.378

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	31.5	24.2	19.7	17.3	12.8	9.4	7.57	4.40	3.33	2.74	2.32	2.02	1.61	1.334	0.722
1.80V/cell	37.2	26.7	21.8	18.4	13.7	10.0	8.03	4.61	3.43	2.81	2.37	2.06	1.64	1.356	0.729
1.75V/cell	41.1	28.9	23.1	19.3	14.2	10.3	8.23	4.74	3.51	2.87	2.42	2.10	1.66	1.373	0.741
1.70V/cell	44.5	30.7	24.4	20.2	14.7	10.6	8.46	4.84	3.58	2.92	2.45	2.12	1.68	1.387	0.747
1.67V/cell	47.8	32.1	25.4	21.0	15.0	10.7	8.55	4.89	3.63	2.96	2.48	2.15	1.70	1.399	0.752
1.60V/cell	49.8	33.0	25.9	21.2	15.2	10.8	8.64	4.95	3.67	2.98	2.51	2.16	1.71	1.407	0.756

□ 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

TN12-7.2

(12V 7.2Ah)

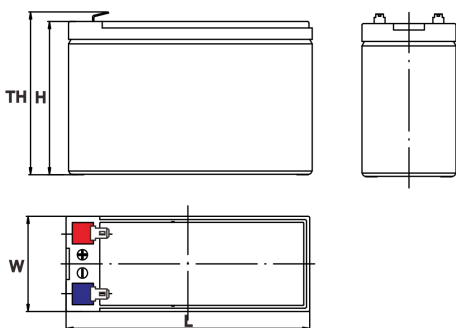
产品特点

- ◆ 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±2mm
高	93.5±3mm
总高	99±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

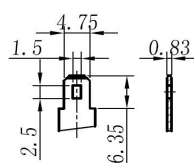
端子类型 T1/T2

重量

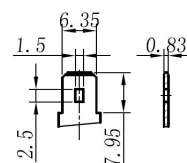
2.35kg

5.2lbs

T1



T2



内容如有改动，恕不另行通知



ISO9001 ISO14001 OHSAS18001

天能电池集团有限公司

长兴天能进出口有限公司

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版本：

V1.0

发行日期：

2016/7/1

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动力电池

储能电池



备用电池

摩托车电池

TN12-7.2

规格书

额定电压	12V
容量(25°C)	20hr Rate 20hr Rate (1.80V/cell)
	6.73Ah 10hr Rate (1.80V/cell)
	6.14Ah 5hr Rate (1.75V/cell)
	5.51Ah 3hr Rate (1.70V/cell)
	4.51Ah 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	2.16A (0.3C)
最大放电电流 (5S)	108A
电阻	18mΩ
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	16.6	12.7	10.2	8.9	6.5	4.9	3.88	2.24	1.70	1.39	1.17	1.01	0.80	0.659	0.355
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1.60V/cell	27.6	18.0	13.9	11.2	7.9	5.7	4.51	2.57	1.90	1.53	1.29	1.10	0.87	0.706	0.378

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	31.5	24.2	19.7	17.3	12.8	9.4	7.57	4.40	3.33	2.74	2.32	2.02	1.61	1.334	0.722
1.80V/cell	37.2	26.7	21.8	18.4	13.7	10.0	8.03	4.61	3.43	2.81	2.37	2.06	1.64	1.356	0.729
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