

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free VRLA AGM Battery - Long Life Type

TNL12-7.2

(12V 6.8Ah)

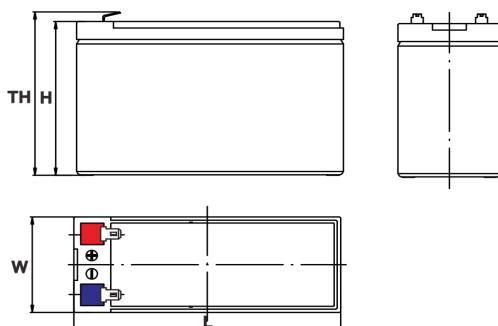
GENERAL FEATURES

- ♦ Oxygen recombination technology: maintenance-free, no need to add water or acid
- ♦ The patent grid alloy: less gassing, low self-discharge, excellent corrosion resistance
- ♦ Long life, low self-discharge rate and high reliability, 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
- ♦ Robots, 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

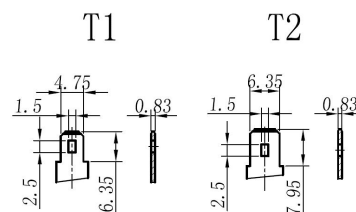
Unit:mm

Terminal Type: T1/T2

Weight

2.57kg

5.68lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

Reserve Battery



TNL12-7.2

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	7.2Ah	20hr Rate(1.80V/cell)
	6.8Ah	10hr Rate(1.80V/cell)
	6Ah	5hr Rate(1.75V/cell)
	5.6Ah	3hr Rate(1.70V/cell)
	4.2Ah	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 (5'	105A	
Internal Resistance	23mΩ	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.8	7.3	6.2	5.1	3.9	3.27	2.09	1.65	1.34	1.08	0.95	0.76	0.639	0.356
1.80V/cell	11.2	8.8	7.4	6.0	4.5	3.66	2.28	1.78	1.43	1.16	1.02	0.80	0.679	0.360
1.75V/cell	12.3	9.6	7.9	6.2	4.7	3.83	2.36	1.81	1.47	1.19	1.04	0.82	0.684	0.363
1.70V/cell	13.4	10.3	8.3	6.5	4.9	3.96	2.45	1.86	1.50	1.22	1.06	0.83	0.690	0.370
1.67V/cell	14.5	11.0	8.8	6.8	5.0	4.09	2.52	1.94	1.55	1.26	1.09	0.84	0.707	0.374
1.60V/cell	15.7	11.7	9.4	7.2	5.2	4.23	2.61	2.00	1.60	1.30	1.11	0.85	0.713	0.377

Constant Power Discharge Table (25°C/77°F) Unit: W

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.6	14.0	12.0	10.0	7.6	6.39	4.11	3.26	2.65	2.15	1.89	1.52	1.301	0.725
1.80V/cell	21.0	16.7	14.0	11.6	8.8	7.13	4.45	3.49	2.82	2.30	2.02	1.61	1.375	0.730
1.75V/cell	22.7	18.0	14.9	11.9	9.0	7.42	4.60	3.54	2.88	2.35	2.07	1.63	1.386	0.737
1.70V/cell	24.2	19.0	15.6	12.3	9.4	7.65	4.77	3.63	2.94	2.41	2.11	1.65	1.404	0.750
1.67V/cell	25.9	20.0	16.5	12.9	9.5	7.82	4.88	3.78	3.03	2.46	2.15	1.68	1.426	0.758
1.60V/cell	27.4	21.1	17.3	13.5	9.8	8.05	5.02	3.87	3.12	2.54	2.19	1.69	1.444	0.762

☐ 动力电池

■ 储能电池

■ 备用电池

☐ 摩托车电池



阀控式免维护AGM电池-长寿命系列

TNL12-7.2

(12V 6.8Ah)

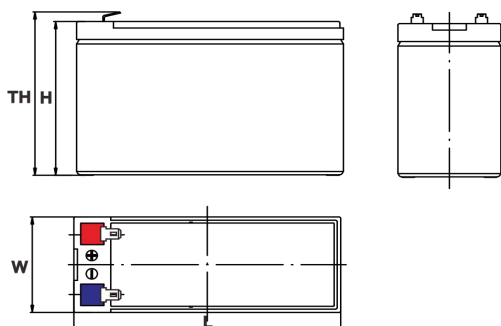
产品特点

- ◆ 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
- ◆ 电池寿命长，自放电率低具有高可靠性，深放电恢复能力出色
- ◆ 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
- ◆ 机器人、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

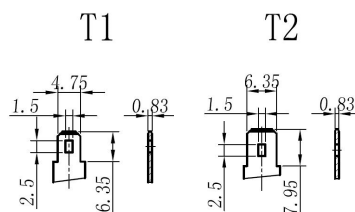
端子类型

单位:mm

端子类型 T1/T2

重量

2.57kg 5.68lbs



ISO9001 ISO14001 OHSAS18001

内容如有改动，恕不另行通知

动力电池

备用电池



TNL12-7.2

规格书

额定电压	12V	
容量(25°C)	7.2Ah	20hr Rate(1.80V/cell)
	6.8Ah	10hr Rate(1.80V/cell)
	6Ah	5hr Rate(1.75V/cell)
	5.6Ah	3hr Rate(1.70V/cell)
	4.2Ah	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)	105A	
电阻	23mΩ	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.8	7.3	6.2	5.1	3.9	3.27	2.09	1.65	1.34	1.08	0.95	0.76	0.639	0.356
1.80V/cell	11.2	8.8	7.4	6.0	4.5	3.66	2.28	1.78	1.43	1.16	1.02	0.80	0.679	0.360
1.75V/cell	12.3	9.6	7.9	6.2	4.7	3.83	2.36	1.81	1.47	1.19	1.04	0.82	0.684	0.363
1.70V/cell	13.4	10.3	8.3	6.5	4.9	3.96	2.45	1.86	1.50	1.22	1.06	0.83	0.690	0.370
1.67V/cell	14.5	11.0	8.8	6.8	5.0	4.09	2.52	1.94	1.55	1.26	1.09	0.84	0.707	0.374
1.60V/cell	15.7	11.7	9.4	7.2	5.2	4.23	2.61	2.00	1.60	1.30	1.11	0.85	0.713	0.377

恒功率放电表 (25°C/77°F) 单位: W														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.6	14.0	12.0	10.0	7.6	6.39	4.11	3.26	2.65	2.15	1.89	1.52	1.301	0.725
1.80V/cell	21.0	16.7	14.0	11.6	8.8	7.13	4.45	3.49	2.82	2.30	2.02	1.61	1.375	0.730
1.75V/cell	22.7	18.0	14.9	11.9	9.0	7.42	4.60	3.54	2.88	2.35	2.07	1.63	1.386	0.737
1.70V/cell	24.2	19.0	15.6	12.3	9.4	7.65	4.77	3.63	2.94	2.41	2.11	1.65	1.404	0.750
1.67V/cell	25.9	20.0	16.5	12.9	9.5	7.82	4.88	3.78	3.03	2.46	2.15	1.68	1.426	0.758
1.60V/cell	27.4	21.1	17.3	13.5	9.8	8.05	5.02	3.87	3.12	2.54	2.19	1.69	1.444	0.762