

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-AGM-GEL Technology-TNG Series

TNG12-7

(12V 7.0Ah)

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
- ◆ Special paste formula: additives for deep discharge, long cycle life
- ◆ High quality AGM separator: extend cycle life and prevent micro short circuit
- ◆ The patent Nano silica electrolytes, extend cycle life and improve the deep discharge performance
- ◆ ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)



Application

- ◆ Renewable energy system
- ◆ Hybrid solar power system
- ◆ Uninterrupted Power Supply (UPS)
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security systems
- ◆ Robots, control equipment, and other factory automation equipment
- ◆ Emergency power supply (EPS)
- ◆ Various power toy and hobby equipment
- ◆ Lighting equipment

Dimension

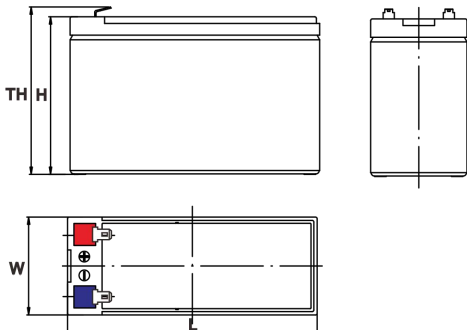
Unit:mm

Length 152±2mm / 5.98inch

Width 65±2mm / 2.56inch

Container Height 94±3mm / 3.7inch

Total Height 100±3mm / 3.94inch



Terminal

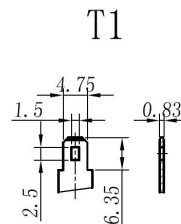
Unit:mm

Terminal Type: T1

Weight

2.6kg

5.73lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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 Motorcycle Battery


TNG12-7

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	7.15Ah	20hr Rate(1.80V/cell)
	6.54Ah	10hr Rate(1.80V/cell)
	5.8Ah	5hr Rate(1.75V/cell)
	5.25Ah	3hr Rate(1.70V/cell)
	4.26Ah	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 Voltage	Float Voltage	2.25 -2.30V/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	2.1A (0.3C)	
Max. Discharge Current (5S)	105A	
Internal Resistance	28mΩ	
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	15.7	11.5	9.8	8.3	6.1	4.5	3.60	2.14	1.60	1.30	1.10	0.95	0.76	0.63	0.350
1.80V/cell	18.8	13.4	11.1	9.0	6.5	4.8	3.83	2.24	1.66	1.35	1.14	0.99	0.78	0.65	0.357
1.75V/cell	21.1	14.6	11.8	9.5	6.8	5.0	3.98	2.31	1.71	1.38	1.16	1.01	0.79	0.66	0.365
1.70V/cell	23.0	15.6	12.6	10.0	7.0	5.1	4.05	2.36	1.75	1.41	1.19	1.03	0.81	0.67	0.369
1.65V/cell	25.0	16.5	13.1	10.4	7.3	5.3	4.17	2.40	1.77	1.43	1.21	1.04	0.82	0.68	0.373
1.60V/cell	26.3	17.3	13.5	10.7	7.5	5.4	4.26	2.46	1.81	1.46	1.23	1.06	0.84	0.69	0.379

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	29.7	21.9	18.8	16.1	11.8	8.7	6.99	4.17	3.13	2.55	2.17	1.89	1.51	1.26	0.694
1.80V/cell	35.2	25.3	21.1	17.4	12.7	9.2	7.41	4.36	3.25	2.65	2.24	1.95	1.56	1.31	0.704
1.75V/cell	39.0	27.5	22.4	18.2	13.1	9.5	7.68	4.49	3.32	2.70	2.28	1.98	1.58	1.33	0.716
1.70V/cell	42.0	28.9	23.5	18.9	13.5	9.7	7.77	4.55	3.37	2.74	2.31	2.01	1.60	1.33	0.718
1.65V/cell	44.8	30.1	24.3	19.4	13.8	9.9	7.91	4.58	3.40	2.76	2.33	2.03	1.61	1.34	0.720
1.60V/cell	46.1	30.9	24.6	19.7	14.0	10.1	8.02	4.66	3.45	2.79	2.36	2.05	1.62	1.35	0.728

☐ 动力电池

■ 储能电池

☐ 备用电池

☐ 摩托车电池



储能电池-AGM-凝胶技术-TNG系列

TNG12-7

(12V 7.0Ah)

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
- ◆ 特制组成配方，添加特殊试剂，增进深放电性能，延长循环寿命
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ 纳米硅胶专利电解质，延长循环寿命，增进深放电性能
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



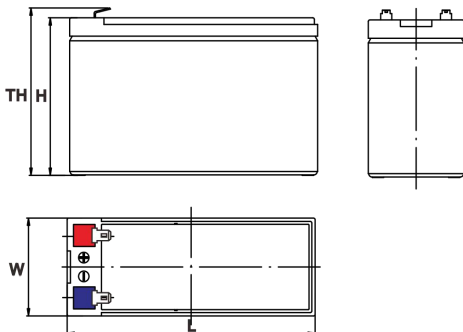
产品应用

- ◆ 可再生能源系统
- ◆ 太阳能混合动力系统
- ◆ 不间断电源 (UPS)
- ◆ 通信及电力设备
- ◆ 应急照明系统
- ◆ 安防及火灾报警系统
- ◆ 机械自动化控制设备
- ◆ 应急电源 (EPS)
- ◆ 各式电动玩具及娱乐设施
- ◆ 照明设备

尺寸

单个尺寸

长	152±2mm / 5.98inch
宽	65±2mm / 2.56inch
高	94±3mm / 3.7inch
总高	100±3mm / 3.94inch



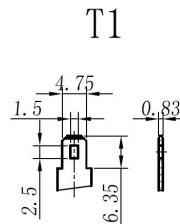
端子类型

单位:mm

端子类型 T1

重量

2.6kg 5.73lbs



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



TNG12-7

规格书

额定电压	12V
容量(25°C)	7.15Ah 20hr Rate(1.80V/cell)
	6.54Ah 10hr Rate(1.80V/cell)
	5.8Ah 5hr Rate(1.75V/cell)
	5.25Ah 3hr Rate(1.70V/cell)
	4.26Ah 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%
充电电压	浮充 2.25 -2.30V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	均充 2.35 -2.40V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	循环使用 2.40 -2.50V/单格@25°C, 温度补偿系数: -5mV/单格/°C
最大充电电流	2.1A (0.3C)
最大放电电流(5S)	105A
电阻	28mΩ
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	15.7	11.5	9.8	8.3	6.1	4.5	3.60	2.14	1.60	1.30	1.10	0.95	0.76	0.63	0.350
1.80V/cell	18.8	13.4	11.1	9.0	6.5	4.8	3.83	2.24	1.66	1.35	1.14	0.99	0.78	0.65	0.357
1.75V/cell	21.1	14.6	11.8	9.5	6.8	5.0	3.98	2.31	1.71	1.38	1.16	1.01	0.79	0.66	0.365
1.70V/cell	23.0	15.6	12.6	10.0	7.0	5.1	4.05	2.36	1.75	1.41	1.19	1.03	0.81	0.67	0.369
1.65V/cell	25.0	16.5	13.1	10.4	7.3	5.3	4.17	2.40	1.77	1.43	1.21	1.04	0.82	0.68	0.373
1.60V/cell	26.3	17.3	13.5	10.7	7.5	5.4	4.26	2.46	1.81	1.46	1.23	1.06	0.84	0.69	0.379

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	29.7	21.9	18.8	16.1	11.8	8.7	6.99	4.17	3.13	2.55	2.17	1.89	1.51	1.26	0.694
1.80V/cell	35.2	25.3	21.1	17.4	12.7	9.2	7.41	4.36	3.25	2.65	2.24	1.95	1.56	1.31	0.704
1.75V/cell	39.0	27.5	22.4	18.2	13.1	9.5	7.68	4.49	3.32	2.70	2.28	1.98	1.58	1.33	0.716
1.70V/cell	42.0	28.9	23.5	18.9	13.5	9.7	7.77	4.55	3.37	2.74	2.31	2.01	1.60	1.33	0.718
1.65V/cell	44.8	30.1	24.3	19.4	13.8	9.9	7.91	4.58	3.40	2.76	2.33	2.03	1.61	1.34	0.720
1.60V/cell	46.1	30.9	24.6	19.7	14.0	10.1	8.02	4.66	3.45	2.79	2.36	2.05	1.62	1.35	0.728