

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-AGM-GEL Technology-TNG Series

TNG12-80

(12V 80Ah)

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)



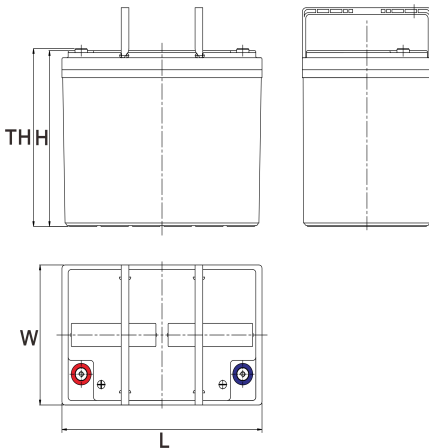
Application

- ◆ 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

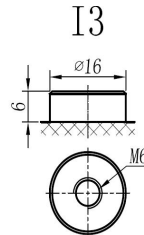
Length	306±2mm / 12.05inch
Width	168±2mm / 6.61inch
Container Height	215±3mm / 8.46inch
Total Height	215±3mm / 8.46inch



Terminal

Unit:mm

Terminal Type: I3



Weight

27kg 59.52lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

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 Reserve Battery

 Motorcycle Battery

TNG12-80

Specification

Nominal Voltage	12V	
Rated Capacity(25°C)	85Ah	20hr Rate(1.80V/cell)
	80Ah	10hr Rate(1.80V/cell)
	69Ah	5hr Rate(1.75V/cell)
	64Ah	3hr Rate(1.70V/cell)
	49Ah	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	24A (0.3C)	
Max. Discharge Current (5S)	960A	
Internal Resistance	6mΩ	
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	134.3	105.6	89.8	75.1	59.7	45.9	37.69	23.99	19.00	15.50	12.50	10.90	8.84	7.56	4.207
1.80V/cell	180.3	134.9	108.5	88.8	70.4	53.3	42.19	26.19	20.40	16.60	13.40	11.70	9.38	8.01	4.247
1.75V/cell	203.3	148.2	118.5	95.5	73.2	55.3	44.19	27.19	20.80	16.90	13.80	12.00	9.54	8.09	4.288
1.70V/cell	223.9	161.6	126.5	100.4	76.1	57.5	45.59	28.29	21.40	17.40	14.10	12.20	9.67	8.17	4.370
1.65V/cell	246.8	174.4	134.6	106.6	80.3	59.0	47.09	29.09	22.29	18.00	14.50	12.50	9.82	8.34	4.431
1.60V/cell	272.2	189.3	143.9	113.6	84.8	61.5	48.79	29.99	22.99	18.50	15.00	12.80	9.92	8.43	4.452

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	245.5	195.0	167.6	141.6	113.8	86.8	71.68	46.05	36.48	29.88	24.16	21.21	17.24	14.91	8.160
1.80V/cell	326.2	246.3	199.7	164.9	132.2	100.3	79.96	49.89	39.05	31.75	25.83	22.69	18.33	15.82	8.230
1.75V/cell	359.9	266.3	215.5	175.7	136.2	103.0	83.22	51.57	39.64	32.34	26.42	23.19	18.53	15.92	8.300
1.70V/cell	385.3	283.7	226.9	183.2	140.9	106.7	85.58	53.44	40.62	33.13	27.02	23.68	18.83	16.12	8.450
1.65V/cell	418.9	303.3	239.4	193.3	147.4	108.4	87.85	54.62	42.20	34.21	27.71	24.08	19.03	16.42	8.550
1.60V/cell	451.3	321.9	251.8	203.6	154.5	112.4	90.41	56.20	43.28	35.10	28.49	24.58	19.23	16.52	8.580

□ 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

TNG12-80

(12V 80Ah)

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）



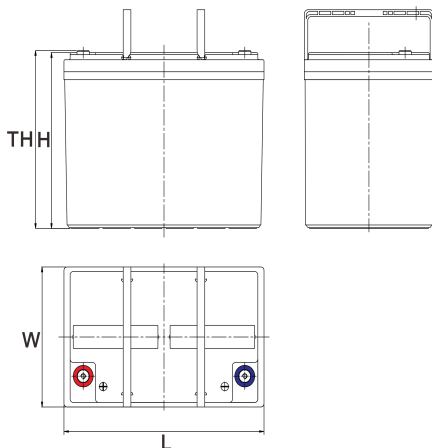
产品应用

- ◆ 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	306±2mm / 12.05inch
宽	168±2mm / 6.61inch
高	215±3mm / 8.46inch
总高	215±3mm / 8.46inch



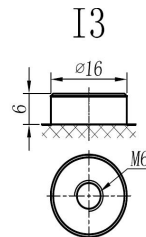
端子类型

单位:mm

端子类型 I3

重量

27kg 59.52lbs



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



规格书

TNG12-80

额定电压	12V	
容量(25°C)	85Ah	20hr Rate(1.80V/cell)
	80Ah	10hr Rate(1.80V/cell)
	69Ah	5hr Rate(1.75V/cell)
	64Ah	3hr Rate(1.70V/cell)
	49Ah	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	24A (0.3C)	
最大放电电流(5S)	960A	
电阻	6mΩ	
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	134.3	105.6	89.8	75.1	59.7	45.9	37.69	23.99	19.00	15.50	12.50	10.90	8.84	7.56	4.207
1.80V/cell	180.3	134.9	108.5	88.8	70.4	53.3	42.19	26.19	20.40	16.60	13.40	11.70	9.38	8.01	4.247
1.75V/cell	203.3	148.2	118.5	95.5	73.2	55.3	44.19	27.19	20.80	16.90	13.80	12.00	9.54	8.09	4.288
1.70V/cell	223.9	161.6	126.5	100.4	76.1	57.5	45.59	28.29	21.40	17.40	14.10	12.20	9.67	8.17	4.370
1.65V/cell	246.8	174.4	134.6	106.6	80.3	59.0	47.09	29.09	22.29	18.00	14.50	12.50	9.82	8.34	4.431
1.60V/cell	272.2	189.3	143.9	113.6	84.8	61.5	48.79	29.99	22.99	18.50	15.00	12.80	9.92	8.43	4.452

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	245.5	195.0	167.6	141.6	113.8	86.8	71.68	46.05	36.48	29.88	24.16	21.21	17.24	14.91	8.160
1.80V/cell	326.2	246.3	199.7	164.9	132.2	100.3	79.96	49.89	39.05	31.75	25.83	22.69	18.33	15.82	8.230
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