

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-50W

(12V 50W, 15min@1.67Vpc)

(12V 12.5Ah, C10 @1.80Vpc)

GENERAL FEATURES

- ♦ Oxygen recombination technology: maintenance-free, no need to add water or acid during application
- ♦ Optimized plate design to increase power output at 15min backup time, high performance in high-rate discharge
- ♦ Wide operating temperature range from -20°C to 55°C, excellent deep discharge recovery capability
- ♦ New structure for plate grid, good corrosion resistance and greatly reduced resistance of the battery,
- ♦ 12 years design life @25°C, low self-discharge rate



Application

- ♦ UPS (High Rate)
- ♦ Communication Equipments
- ♦ Security systems
- ♦ Data & Network centers
- ♦ Emergency power supply (EPS)
- ♦ Bank and financial system
- ♦ Hospitals & Testing laboratories

Dimension

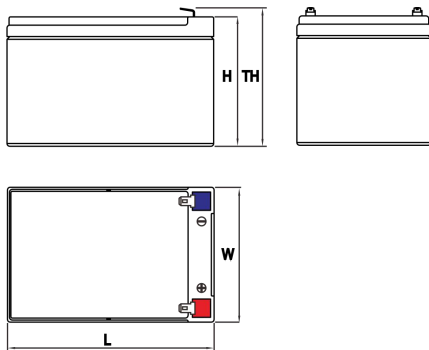
Unit:mm

Length 151±2mm / 5.94inch

Width 98±2mm / 3.86inch

Container Height 95±3mm / 3.74inch

Total Height 101±3mm / 3.98inch



Terminal

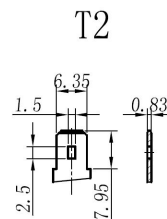
Unit:mm

Terminal Type: T2

Weight

4.05kg

8.95lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

- Motive Battery Energy Storage Battery
 Reserve Battery Motorcycle Battery



TNX12-50W

Specification

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	50W F.V (1.67V/cell)	
Rated Capacity (10HR 25°C)	12.5Ah (1.80V/cell)	
Dimension	Length	151±2mm / 5.94inch
	Width	98±2mm / 3.86inch
	Container Height	95±3mm / 3.74inch
	Total Height	101±3mm / 3.98inch
Weight	4.05kg / 8.95lbs	
Terminal	T2	
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	2.25 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	Equalize Voltage	2.40 -2.50V/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	3.75A (0.3C)	
Max. Discharge Current (5S)	180A	
Internal Resistance	16mΩ	
Self-Discharge	<3%, TNX 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	26.3	24.4	20.8	17.3	12.6	9.0	7.11	4.00	2.87	2.29	1.97	1.68	1.41	1.178	0.671
1.80V/cell	30.7	27.7	22.7	18.5	13.6	9.8	7.59	4.26	3.03	2.40	2.02	1.77	1.50	1.247	0.677
1.75V/cell	34.5	30.4	24.8	20.0	14.1	10.2	7.94	4.43	3.15	2.50	2.10	1.81	1.52	1.267	0.683
1.70V/cell	38.1	33.0	26.6	21.0	14.7	10.6	8.19	4.61	3.27	2.58	2.14	1.85	1.54	1.277	0.696
1.67V/cell	42.0	35.7	28.2	22.2	15.5	10.9	8.47	4.73	3.38	2.66	2.19	1.89	1.57	1.307	0.706
1.60V/cell	46.5	38.0	29.7	23.7	16.4	11.4	8.77	4.90	3.48	2.74	2.25	1.94	1.58	1.317	0.709

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	48.6	45.5	39.1	32.8	24.4	17.5	13.97	7.91	5.74	4.61	4.00	3.44	2.82	2.407	1.377
1.80V/cell	56.1	50.9	42.3	34.7	25.7	18.9	14.89	8.37	6.02	4.79	4.08	3.59	2.98	2.540	1.387
1.75V/cell	61.9	55.0	45.7	37.1	26.5	19.5	15.40	8.69	6.23	4.99	4.22	3.68	3.03	2.560	1.397
1.70V/cell	66.3	58.5	48.0	38.7	27.4	20.2	15.91	9.02	6.46	5.13	4.31	3.75	3.07	2.591	1.428
1.67V/cell	72.1	62.7	50.3	40.8	28.7	20.5	16.32	9.21	6.64	5.27	4.40	3.81	3.11	2.642	1.438
1.60V/cell	77.6	65.2	52.3	42.9	30.1	21.3	16.83	9.48	6.80	5.43	4.50	3.90	3.13	2.662	1.448

动力电池

储能电池

备用电池

摩托车电池



阀控免维护-高功率UPS电池-TNX系列

TNX12-50W

(12V 50W, 15min@1.67Vpc)

(12V 12.5Ah, C10 @1.80Vpc)

产品特点：

- ◆ 氧复合技术: 阀控式免维护，使用期间无需加水或加酸
- ◆ 极板优化处理，提升15分钟放电性能，高倍率放电性能优异
- ◆ 在-20°C到55°C温度区间内均可正常使用，深放电恢复能力出色
- ◆ 隔板特色设计，抗腐蚀性佳，同时大幅度降低电池内阻
- ◆ 12年设计寿命（25°C），自放电率低



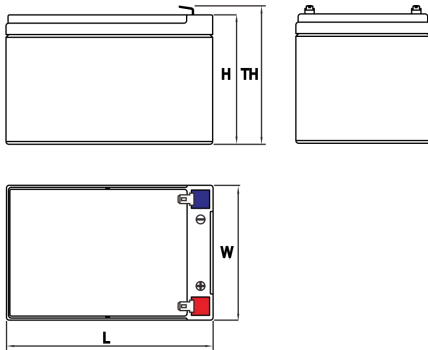
产品应用

- ◆ 不间断电源(高功率)
- ◆ 通讯设备
- ◆ 安全系统
- ◆ 数据网络中心
- ◆ 应急电源系统
- ◆ 银行资金系统
- ◆ 医疗测试设备

尺寸

单个尺寸

长	151±2mm / 5.94inch
宽	98±2mm / 3.86inch
高	95±3mm / 3.74inch
总高	101±3mm / 3.98inch



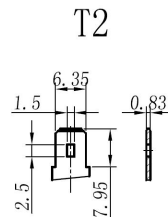
端子类型

单位:mm

端子类型 T2

重量

4.05kg 8.95lbs



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



TNX12-50W

规格书

额定电压	12V	
15分钟放电功率	50W F.V (1.67V/cell)	
额定容量 (10小时)	12.5Ah (1.80V/cell)	
尺寸	长	151±2mm
	宽	98±2mm
	高	95±3mm
	总高	101±3mm
重量	4.05kg	
端子	T2	
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	2.25 -2.27V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	均充电压	2.40 -2.50V/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	3.75A (0.3C)	
最大放电电流 (5S)	180A	
电阻	16mΩ	
自放电	<3%, TNX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	26.3	24.4	20.8	17.3	12.6	9.0	7.11	4.00	2.87	2.29	1.97	1.68	1.41	1.178	0.671
1.80V/cell	30.7	27.7	22.7	18.5	13.6	9.8	7.59	4.26	3.03	2.40	2.02	1.77	1.50	1.247	0.677
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1.70V/cell	38.1	33.0	26.6	21.0	14.7	10.6	8.19	4.61	3.27	2.58	2.14	1.85	1.54	1.277	0.696
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1.60V/cell	46.5	38.0	29.7	23.7	16.4	11.4	8.77	4.90	3.48	2.74	2.25	1.94	1.58	1.317	0.709

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	48.6	45.5	39.1	32.8	24.4	17.5	13.97	7.91	5.74	4.61	4.00	3.44	2.82	2.407	1.377
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1.60V/cell	77.6	65.2	52.3	42.9	30.1	21.3	16.83	9.48	6.80	5.43	4.50	3.90	3.13	2.662	1.448