

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-29W

(12V 29W, 15min@1.67Vpc)

(12V 7.8Ah, C20 @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

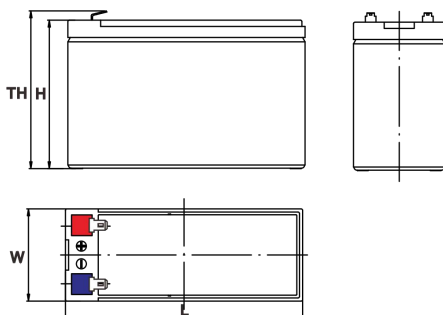
Unit:mm

Length 151±2mm / 5.94inch

Width 65±2mm / 2.56inch

Container Height 93.5±3mm / 3.68inch

Total Height 99±3mm / 3.9inch



Terminal

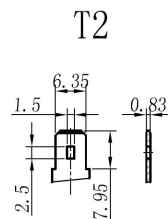
Unit:mm

Terminal Type: T2

Weight

2.5kg

5.53lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

- Motive Battery Energy Storage Battery
 Reserve Battery Motorcycle Battery



TNX12-29W

Specification

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	29W F.V (1.67V/cell)	
Rated Capacity (20HR 25°C)	7.8Ah (1.80V/cell)	
Dimension	Length	151±2mm / 5.94inch
	Width	65±2mm / 2.56inch
	Container Height	93.5±3mm / 3.68inch
	Total Height	99±3mm / 3.9inch
Weight	2.5kg / 5.53lbs	
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	2.34A (0.3C)	
Max. Discharge Current (5S)	105A	
Internal Resistance	20mΩ	
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	26.7	17.2	13.5	11.2	8.4	6.1	4.76	2.66	1.89	1.50	1.25	1.08	0.87	0.725	0.382
1.80V/cell	30.0	18.7	14.6	12.0	8.8	6.4	4.98	2.74	1.95	1.54	1.29	1.12	0.90	0.745	0.390
1.75V/cell	32.0	20.0	15.5	12.7	9.2	6.6	5.24	2.83	2.01	1.59	1.33	1.15	0.92	0.765	0.398
1.70V/cell	34.0	21.0	16.2	13.1	9.5	6.8	5.38	2.91	2.07	1.64	1.37	1.18	0.94	0.780	0.403
1.67V/cell	35.7	21.8	16.7	13.6	9.8	7.0	5.47	2.96	2.11	1.67	1.39	1.20	0.95	0.788	0.406
1.60V/cell	36.5	22.3	17.1	13.8	10.0	7.1	5.57	3.01	2.13	1.69	1.41	1.22	0.96	0.794	0.408

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	48.8	31.6	24.8	20.7	15.6	11.4	9.02	5.06	3.61	2.87	2.40	2.09	1.68	1.406	0.765
1.80V/cell	53.2	33.6	26.4	22.1	16.4	11.9	9.37	5.18	3.71	2.93	2.46	2.15	1.74	1.443	0.779
1.75V/cell	56.2	35.6	27.8	23.1	16.9	12.3	9.82	5.33	3.81	3.03	2.54	2.21	1.78	1.481	0.794
1.70V/cell	58.9	36.9	28.8	23.7	17.4	12.6	10.04	5.47	3.91	3.11	2.60	2.26	1.81	1.508	0.803
1.67V/cell	60.9	37.7	29.3	24.2	17.8	12.8	10.16	5.56	3.97	3.15	2.64	2.29	1.83	1.521	0.809
1.60V/cell	61.2	38.0	29.5	24.3	17.8	12.9	10.27	5.61	4.00	3.18	2.66	2.31	1.84	1.531	0.811

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

TNX12-29W

(12V 29W, 15min@1.67Vpc)

(12V 7.8Ah, C20 @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, 抗腐蚀性能佳, 同时大幅度降低电池内阻
- 12年设计寿命(25°C), 自放电率低



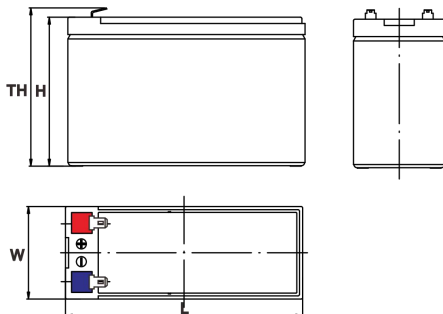
产品应用

- 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	65±2mm / 2.56inch
高	93.5±3mm / 3.68inch
总高	99±3mm / 3.9inch



端子类型

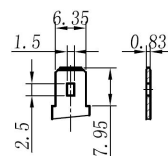
单位:mm

端子类型 T2

重量

2.5kg 5.53lbs

T2



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

TNX12-29W

规格书

额定电压	12V	
15分钟放电功率	29W F.V (1.67V/cell)	
额定容量 (10小时)	7.8Ah (1.80V/cell)	
尺寸	长	151±2mm
	宽	65±2mm
	高	93.5±3mm
	总高	99±3mm
重量	2.5kg	
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	2.34A (0.3C)	
最大放电电流 (5S)	105A	
电阻	20mΩ	
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	26.7	17.2	13.5	11.2	8.4	6.1	4.76	2.66	1.89	1.50	1.25	1.08	0.87	0.725	0.382
1.80V/cell	30.0	18.7	14.6	12.0	8.8	6.4	4.98	2.74	1.95	1.54	1.29	1.12	0.90	0.745	0.390
1.75V/cell	32.0	20.0	15.5	12.7	9.2	6.6	5.24	2.83	2.01	1.59	1.33	1.15	0.92	0.765	0.398
1.70V/cell	34.0	21.0	16.2	13.1	9.5	6.8	5.38	2.91	2.07	1.64	1.37	1.18	0.94	0.780	0.403
1.67V/cell	35.7	21.8	16.7	13.6	9.8	7.0	5.47	2.96	2.11	1.67	1.39	1.20	0.95	0.788	0.406
1.60V/cell	36.5	22.3	17.1	13.8	10.0	7.1	5.57	3.01	2.13	1.69	1.41	1.22	0.96	0.794	0.408

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	48.8	31.6	24.8	20.7	15.6	11.4	9.02	5.06	3.61	2.87	2.40	2.09	1.68	1.406	0.765
1.80V/cell	53.2	33.6	26.4	22.1	16.4	11.9	9.37	5.18	3.71	2.93	2.46	2.15	1.74	1.443	0.779
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1.70V/cell	58.9	36.9	28.8	23.7	17.4	12.6	10.04	5.47	3.91	3.11	2.60	2.26	1.81	1.508	0.803
1.67V/cell	60.9	37.7	29.3	24.2	17.8	12.8	10.16	5.56	3.97	3.15	2.64	2.29	1.83	1.521	0.809
1.60V/cell	61.2	38.0	29.5	24.3	17.8	12.9	10.27	5.61	4.00	3.18	2.66	2.31	1.84	1.531	0.811