

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-32W

(12V 32W, 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

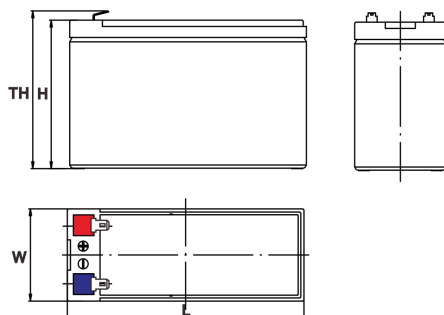
Unit:mm

Length 151±2mm / 5.94inch

Width 65.5±2mm / 2.58inch

Container Height 93.5±3mm / 3.68inch

Total Height 99.5±3mm / 3.92inch



Terminal

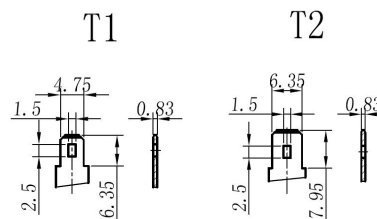
Unit:mm

Terminal Type: T1/T2

Weight

2.45kg

5.4lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

- Motive Battery Energy Storage Battery
 Reserve Battery Motorcycle Battery



TNX12-32W

Specification

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	32W F.V (1.67V/cell)	
Rated Capacity (20HR 25°C)	8.1Ah (1.80V/cell)	
Dimension	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
Weight	2.45kg / 5.4lbs	
Terminal	T1/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)	114A	
Internal Resistance	18mΩ	
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	28.0	18.2	14.6	12.1	9.0	6.6	5.13	2.78	1.98	1.57	1.31	1.13	0.91	0.728	0.396
1.80V/cell	31.4	19.9	15.7	12.9	9.5	6.8	5.31	2.87	2.04	1.61	1.35	1.17	0.94	0.749	0.404
1.75V/cell	34.0	21.2	16.5	13.5	9.8	7.0	5.49	2.96	2.11	1.67	1.39	1.21	0.97	0.769	0.412
1.70V/cell	35.9	22.2	17.2	14.1	10.2	7.3	5.63	3.05	2.17	1.71	1.43	1.24	0.98	0.784	0.417
1.67V/cell	37.2	23.0	17.8	14.5	10.5	7.4	5.73	3.11	2.21	1.74	1.46	1.26	1.00	0.792	0.420
1.60V/cell	38.3	23.6	18.2	14.9	10.7	7.6	5.84	3.15	2.24	1.77	1.47	1.27	1.01	0.798	0.422

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	53.2	34.8	27.9	23.3	17.5	12.8	10.10	5.51	3.94	3.12	2.62	2.28	1.83	1.532	0.833
1.80V/cell	58.0	37.2	29.6	24.6	18.2	13.2	10.40	5.65	4.04	3.20	2.69	2.34	1.89	1.573	0.849
1.75V/cell	62.0	39.2	30.8	25.6	18.8	13.6	10.70	5.81	4.15	3.30	2.76	2.40	1.94	1.614	0.865
1.70V/cell	64.8	40.5	31.8	26.4	19.4	13.9	10.94	5.96	4.26	3.38	2.83	2.46	1.97	1.643	0.875
1.67V/cell	66.1	41.4	32.2	26.9	19.8	14.2	11.08	6.06	4.33	3.43	2.87	2.49	1.99	1.657	0.881
1.60V/cell	66.8	41.8	32.7	27.2	19.9	14.3	11.19	6.12	4.36	3.47	2.90	2.52	2.01	1.668	0.884

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

TNX12-32W

(12V 32W, 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



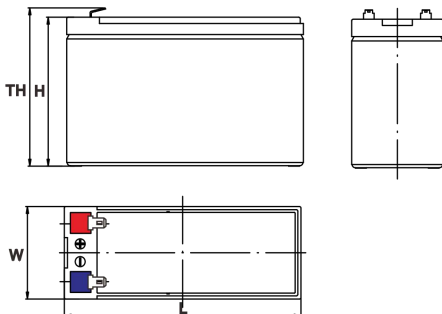
产品应用

- ◆ 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	65.5±2mm / 2.58inch
高	93.5±3mm / 3.68inch
总高	99.5±3mm / 3.92inch



端子类型

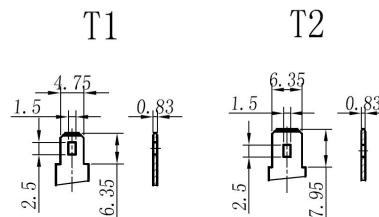
单位:mm

端子类型 T1/T2

重量

2.45kg

5.4lbs



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



TNX12-32W

规格书

额定电压	12V	
15分钟放电功率	32W F.V (1.67V/cell)	
额定容量 (10小时)	8.1Ah (1.80V/cell)	
尺寸	长	151±2mm
	宽	65.5±2mm
	高	93.5±3mm
	总高	99.5±3mm
重量	2.45kg	
端子	T1/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)	114A	
电阻	18mΩ	
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	28.0	18.2	14.6	12.1	9.0	6.6	5.13	2.78	1.98	1.57	1.31	1.13	0.91	0.728	0.396
1.80V/cell	31.4	19.9	15.7	12.9	9.5	6.8	5.31	2.87	2.04	1.61	1.35	1.17	0.94	0.749	0.404
1.75V/cell	34.0	21.2	16.5	13.5	9.8	7.0	5.49	2.96	2.11	1.67	1.39	1.21	0.97	0.769	0.412
1.70V/cell	35.9	22.2	17.2	14.1	10.2	7.3	5.63	3.05	2.17	1.71	1.43	1.24	0.98	0.784	0.417
1.67V/cell	37.2	23.0	17.8	14.5	10.5	7.4	5.73	3.11	2.21	1.74	1.46	1.26	1.00	0.792	0.420
1.60V/cell	38.3	23.6	18.2	14.9	10.7	7.6	5.84	3.15	2.24	1.77	1.47	1.27	1.01	0.798	0.422

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	53.2	34.8	27.9	23.3	17.5	12.8	10.10	5.51	3.94	3.12	2.62	2.28	1.83	1.532	0.833
1.80V/cell	58.0	37.2	29.6	24.6	18.2	13.2	10.40	5.65	4.04	3.20	2.69	2.34	1.89	1.573	0.849
1.75V/cell	62.0	39.2	30.8	25.6	18.8	13.6	10.70	5.81	4.15	3.30	2.76	2.40	1.94	1.614	0.865
1.70V/cell	64.8	40.5	31.8	26.4	19.4	13.9	10.94	5.96	4.26	3.38	2.83	2.46	1.97	1.643	0.875
1.67V/cell	66.1	41.4	32.2	26.9	19.8	14.2	11.08	6.06	4.33	3.43	2.87	2.49	1.99	1.657	0.881
1.60V/cell	66.8	41.8	32.7	27.2	19.9	14.3	11.19	6.12	4.36	3.47	2.90	2.52	2.01	1.668	0.884