

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Maintenance Free-High Rate UPS Battery-TNX Series

# TNX12-25W

(12V 26W, 15min@1.67Vpc)

(12V 7.2Ah, 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

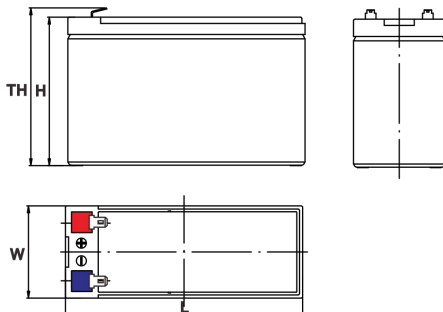
Unit:mm

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

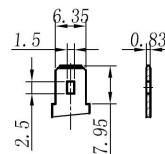
Terminal Type: T2

### Weight

2.18kg

4.82lbs

T2



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

- Motive Battery
- Energy Storage Battery
- Reserve Battery
- Motorcycle Battery



## TNX12-25W

### Specification

<b>Nominal Voltage</b>	12V	
<b>Rated Power (15min Rate 25°C)</b>	26W F.V (1.67V/cell)	
<b>Rated Capacity (20HR 25°C)</b>	7.2Ah (1.80V/cell)	
<b>Dimension</b>	<b>Length</b>	151±2mm / 5.94inch
	<b>Width</b>	65±2mm / 2.56inch
	<b>Container Height</b>	93.5±3mm / 3.68inch
	<b>Total Height</b>	99±3mm / 3.9inch
<b>Weight</b>	2.18kg / 4.82lbs	
<b>Terminal</b>	T2	
<b>Container Material</b>	ABS ( Flame-retardant ABS UL94-V0 is optional )	
<b>Operating Temperature Range</b>	<b>Discharge</b>	-20 ~ +50°C
	<b>Charge</b>	0 ~ +40°C
	<b>Storage</b>	-15 ~ +40°C
<b>Capacity Effected by Temperature</b>	<b>40°C / 104°F</b>	106%
	<b>25°C / 77°F</b>	100%
	<b>0°C / 32°F</b>	86%
	<b>-10°C / 14°F</b>	65%
<b>Charge</b>	<b>Float Voltage</b>	2.25 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	<b>Equalize Voltage</b>	2.40 -2.50V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	<b>Cycle Voltage</b>	2.40 -2.50V/cell@25°C, Tem.Coefficient : -5mV/cell/°C
<b>Max. Charging Current</b>	2.16A ( 0.3C )	
<b>Max. Discharge Current (5S)</b>	90A	
<b>Internal Resistance</b>	22mΩ	
<b>Self-Discharge</b>	<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	23.8	15.9	12.4	10.3	7.7	5.6	4.36	2.37	1.68	1.33	1.11	0.97	0.77	0.646	0.351
1.80V/cell	26.7	17.4	13.3	11.0	8.1	5.8	4.52	2.44	1.74	1.37	1.15	1.00	0.80	0.664	0.358
1.75V/cell	29.3	18.4	14.2	11.5	8.4	6.0	4.67	2.52	1.79	1.42	1.19	1.03	0.82	0.682	0.365
1.70V/cell	31.3	19.4	14.8	12.0	8.7	6.2	4.79	2.59	1.84	1.46	1.22	1.05	0.84	0.695	0.370
1.67V/cell	32.7	20.1	15.3	12.3	8.9	6.3	4.88	2.64	1.88	1.48	1.24	1.07	0.85	0.702	0.373
1.60V/cell	33.8	20.6	15.7	12.6	9.0	6.4	4.96	2.68	1.90	1.51	1.25	1.08	0.86	0.708	0.374

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	42.7	28.6	22.4	18.7	14.1	10.3	8.11	4.42	3.16	2.51	2.10	1.83	1.47	1.230	0.669
1.80V/cell	46.6	30.7	23.7	19.7	14.6	10.6	8.35	4.53	3.24	2.57	2.16	1.88	1.52	1.263	0.681
1.75V/cell	50.6	32.1	25.0	20.6	15.1	10.9	8.59	4.66	3.33	2.65	2.22	1.93	1.56	1.295	0.694
1.70V/cell	53.2	33.4	25.8	21.2	15.6	11.2	8.78	4.78	3.42	2.72	2.27	1.97	1.58	1.319	0.703
1.67V/cell	54.8	34.0	26.4	21.6	15.8	11.3	8.89	4.86	3.47	2.75	2.31	2.00	1.60	1.330	0.707
1.60V/cell	55.5	34.4	26.6	21.8	15.9	11.5	8.98	4.91	3.50	2.78	2.33	2.02	1.61	1.339	0.710

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

# TNX12-25W

(12V 26W, 15min@1.67Vpc)

(12V 7.2Ah, 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



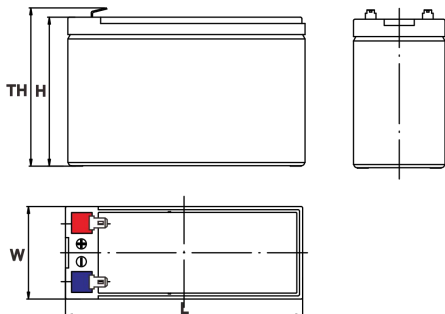
### 产品应用

- 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

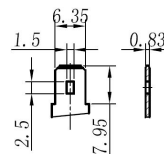
单位:mm

端子类型 T2

### 重量

2.18kg 4.82lbs

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



## TNX12-25W

### 规格书

额定电压	12V	
15分钟放电功率	26W F.V (1.67V/cell)	
额定容量 (10小时)	7.2Ah (1.80V/cell)	
尺寸	长	151±2mm
	宽	65±2mm
	高	93.5±3mm
	总高	99±3mm
重量	2.18kg	
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	2.16A (0.3C)	
最大放电电流 (5S)	90A	
电阻	22mΩ	
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	23.8	15.9	12.4	10.3	7.7	5.6	4.36	2.37	1.68	1.33	1.11	0.97	0.77	0.646	0.351
1.80V/cell	26.7	17.4	13.3	11.0	8.1	5.8	4.52	2.44	1.74	1.37	1.15	1.00	0.80	0.664	0.358
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1.67V/cell	32.7	20.1	15.3	12.3	8.9	6.3	4.88	2.64	1.88	1.48	1.24	1.07	0.85	0.702	0.373
1.60V/cell	33.8	20.6	15.7	12.6	9.0	6.4	4.96	2.68	1.90	1.51	1.25	1.08	0.86	0.708	0.374

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	42.7	28.6	22.4	18.7	14.1	10.3	8.11	4.42	3.16	2.51	2.10	1.83	1.47	1.230	0.669
1.80V/cell	46.6	30.7	23.7	19.7	14.6	10.6	8.35	4.53	3.24	2.57	2.16	1.88	1.52	1.263	0.681
1.75V/cell	50.6	32.1	25.0	20.6	15.1	10.9	8.59	4.66	3.33	2.65	2.22	1.93	1.56	1.295	0.694
1.70V/cell	53.2	33.4	25.8	21.2	15.6	11.2	8.78	4.78	3.42	2.72	2.27	1.97	1.58	1.319	0.703
1.67V/cell	54.8	34.0	26.4	21.6	15.8	11.3	8.89	4.86	3.47	2.75	2.31	2.00	1.60	1.330	0.707
1.60V/cell	55.5	34.4	26.6	21.8	15.9	11.5	8.98	4.91	3.50	2.78	2.33	2.02	1.61	1.339	0.710