

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-36W

(12V 36W, 15min@1.67Vpc)

(12V 8.8Ah, 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

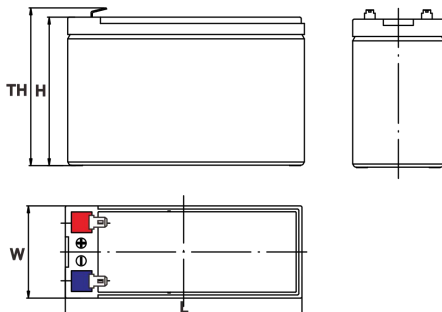
Unit:mm

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

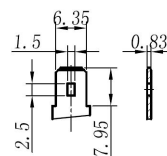
Terminal Type: T2

Weight

2.66kg

5.86lbs

T2



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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



TNX12-36W

Specification

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	35W F.V (1.67V/cell)	
Rated Capacity (20HR 25°C)	8.5Ah (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	2.66kg / 5.86lbs	
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	A (0.3C)	
Max. Discharge Current (5S)	A	
Internal Resistance	mΩ	
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	28.9	19.3	15.2	12.5	9.3	6.8	5.24	2.84	2.03	1.61	1.34	1.16	0.93	0.768	0.417
1.80V/cell	32.4	21.1	16.4	13.3	9.7	7.0	5.43	2.93	2.09	1.64	1.38	1.19	0.96	0.790	0.426
1.75V/cell	35.7	22.3	17.4	14.0	10.1	7.3	5.61	3.03	2.15	1.70	1.42	1.23	0.99	0.811	0.435
1.70V/cell	38.0	23.3	18.2	14.4	10.5	7.5	5.75	3.12	2.22	1.75	1.46	1.26	1.00	0.826	0.440
1.67V/cell	39.7	24.3	18.7	14.9	10.8	7.7	5.86	3.17	2.26	1.79	1.49	1.28	1.02	0.835	0.443
1.60V/cell	40.9	25.3	19.1	15.3	11.0	7.8	5.96	3.22	2.28	1.81	1.51	1.30	1.03	0.842	0.446

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	54.9	37.0	29.3	24.4	18.3	13.4	10.50	5.72	4.11	3.27	2.74	2.37	1.90	1.602	0.869
1.80V/cell	60.7	39.9	31.3	25.7	18.9	13.7	10.82	5.89	4.22	3.33	2.80	2.43	1.96	1.643	0.885
1.75V/cell	65.9	41.7	32.9	26.7	19.6	14.1	11.13	6.05	4.32	3.43	2.89	2.51	2.03	1.674	0.902
1.70V/cell	69.2	43.5	33.9	27.4	20.2	14.6	11.34	6.21	4.44	3.53	2.95	2.56	2.05	1.706	0.912
1.67V/cell	71.1	44.3	34.6	28.1	20.6	14.8	11.54	6.29	4.50	3.59	3.01	2.59	2.08	1.716	0.916
1.60V/cell	72.3	45.3	34.9	28.3	20.8	14.9	11.65	6.36	4.54	3.61	3.04	2.62	2.09	1.737	0.920

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

TNX12-36W

(12V 36W, 15min@1.67Vpc)

(12V 8.8Ah, 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



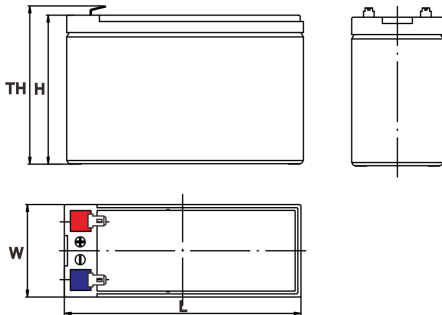
产品应用

- ◆ 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

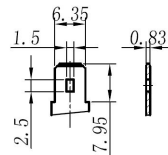
单位:mm

端子类型 T2

重量

2.66kg 5.86lbs

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

TNX12-36W

规格书

额定电压	12V	
15分钟放电功率	35W F.V (1.67V/cell)	
额定容量 (10小时)	8.5Ah (1.80V/cell)	
尺寸	长	151±2mm
	宽	65.5±2mm
	高	93.5±3mm
	总高	99.5±3mm
重量	2.66kg	
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	A (0.3C)	
最大放电电流 (5S)	A	
电阻	mΩ	
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	28.9	19.3	15.2	12.5	9.3	6.8	5.24	2.84	2.03	1.61	1.34	1.16	0.93	0.768	0.417
1.80V/cell	32.4	21.1	16.4	13.3	9.7	7.0	5.43	2.93	2.09	1.64	1.38	1.19	0.96	0.790	0.426
1.75V/cell	35.7	22.3	17.4	14.0	10.1	7.3	5.61	3.03	2.15	1.70	1.42	1.23	0.99	0.811	0.435
1.70V/cell	38.0	23.3	18.2	14.4	10.5	7.5	5.75	3.12	2.22	1.75	1.46	1.26	1.00	0.826	0.440
1.67V/cell	39.7	24.3	18.7	14.9	10.8	7.7	5.86	3.17	2.26	1.79	1.49	1.28	1.02	0.835	0.443
1.60V/cell	40.9	25.3	19.1	15.3	11.0	7.8	5.96	3.22	2.28	1.81	1.51	1.30	1.03	0.842	0.446

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	54.9	37.0	29.3	24.4	18.3	13.4	10.50	5.72	4.11	3.27	2.74	2.37	1.90	1.602	0.869
1.80V/cell	60.7	39.9	31.3	25.7	18.9	13.7	10.82	5.89	4.22	3.33	2.80	2.43	1.96	1.643	0.885
1.75V/cell	65.9	41.7	32.9	26.7	19.6	14.1	11.13	6.05	4.32	3.43	2.89	2.51	2.03	1.674	0.902
1.70V/cell	69.2	43.5	33.9	27.4	20.2	14.6	11.34	6.21	4.44	3.53	2.95	2.56	2.05	1.706	0.912
1.67V/cell	71.1	44.3	34.6	28.1	20.6	14.8	11.54	6.29	4.50	3.59	3.01	2.59	2.08	1.716	0.916
1.60V/cell	72.3	45.3	34.9	28.3	20.8	14.9	11.65	6.36	4.54	3.61	3.04	2.62	2.09	1.737	0.920