

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-100W

(12V 100W, 15min@1.67Vpc)

(12V 30Ah, 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

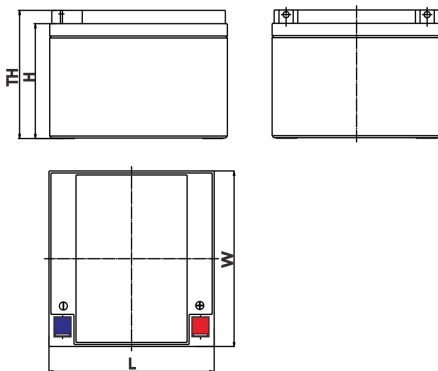
Unit:mm

Length 166±2mm / 6.54inch

Width 175±2mm / 6.89inch

Container Height 125±3mm / 4.92inch

Total Height 125±3mm / 4.92inch



Terminal

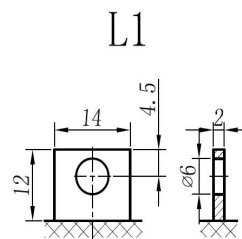
Unit:mm

Terminal Type: L1

Weight

8.6kg

18.96lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

- Motive Battery Energy Storage Battery
 Reserve Battery Motorcycle Battery



TNX12-100W

Specifaion

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	100W F.V (1.67V/cell)	
Rated Capacity (10HR 25°C)	28Ah (1.80V/cell)	
Dimension	Length	166±2mm / 6.54inch
	Width	175±2mm / 6.89inch
	Container Height	125±3mm / 4.92inch
	Total Height	125±3mm / 4.92inch
Weight	8.6kg / 18.96lbs	
Terminal	L1	
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	9A (0.3C)	
Max. Discharge Current (5S)	360A	
Internal Resistance	13mΩ	
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	65.9	48.5	41.1	34.3	25.0	18.1	14.34	8.19	6.01	4.85	4.12	3.61	2.96	2.685	1.562
1.80V/cell	76.9	54.4	45.2	36.7	26.5	19.1	15.01	8.65	6.37	5.11	4.32	3.79	3.09	2.800	1.590
1.75V/cell	86.7	59.9	49.4	39.8	28.2	20.1	15.82	9.07	6.62	5.33	4.50	3.91	3.17	2.865	1.611
1.70V/cell	95.5	64.7	52.7	42.1	29.6	21.0	16.46	9.38	6.84	5.48	4.61	4.02	3.23	2.909	1.634
1.67V/cell	103.5	69.1	55.6	43.9	30.9	21.7	17.01	9.67	7.00	5.59	4.70	4.07	3.28	2.952	1.645
1.60V/cell	108.9	72.4	57.4	45.3	31.8	22.2	17.43	9.84	7.12	5.69	4.79	4.15	3.32	2.992	1.657

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	120.0	89.3	76.6	64.3	47.2	34.4	27.42	15.77	11.63	9.44	8.06	7.09	5.82	4.918	2.867
1.80V/cell	138.7	99.5	83.6	68.5	50.0	36.2	28.60	16.61	12.30	9.92	8.43	7.42	6.07	5.111	2.911
1.75V/cell	154.7	108.7	90.8	74.0	52.9	38.0	30.08	17.37	12.76	10.31	8.75	7.62	6.21	5.217	2.938
1.70V/cell	168.5	116.2	96.3	77.9	55.1	39.4	31.21	17.91	13.13	10.58	8.92	7.82	6.31	5.279	2.971
1.67V/cell	180.7	123.1	99.8	80.6	57.2	40.6	32.10	18.40	13.42	10.75	9.08	7.90	6.38	5.345	2.983
1.60V/cell	186.8	127.3	103.1	82.5	58.6	41.5	32.78	18.65	13.59	10.90	9.22	8.02	6.44	5.403	2.999

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

TNX12-100W

(12V 100W, 15min@1.67Vpc)

(12V 30Ah, 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



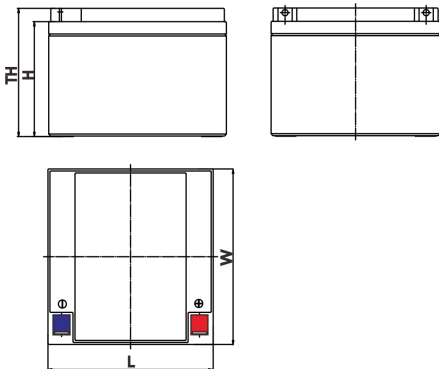
产品应用

- ◆ 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	166±2mm / 6.54inch
宽	175±2mm / 6.89inch
高	125±3mm / 4.92inch
总高	125±3mm / 4.92inch



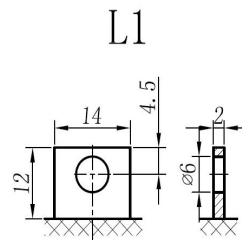
端子类型

单位:mm

端子类型 L1

重量

8.6kg 18.96lbs



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

TNX12-100W

规格书

额定电压	12V	
15分钟放电功率	100W F.V (1.67V/cell)	
额定容量 (10小时)	28Ah (1.80V/cell)	
尺寸	长	166±2mm
	宽	175±2mm
	高	125±3mm
	总高	125±3mm
重量	8.6kg	
端子	L1	
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	9A (0.3C)	
最大放电电流 (5S)	360A	
电阻	13mΩ	
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	65.9	48.5	41.1	34.3	25.0	18.1	14.34	8.19	6.01	4.85	4.12	3.61	2.96	2.685	1.562
1.80V/cell	76.9	54.4	45.2	36.7	26.5	19.1	15.01	8.65	6.37	5.11	4.32	3.79	3.09	2.800	1.590
1.75V/cell	86.7	59.9	49.4	39.8	28.2	20.1	15.82	9.07	6.62	5.33	4.50	3.91	3.17	2.865	1.611
1.70V/cell	95.5	64.7	52.7	42.1	29.6	21.0	16.46	9.38	6.84	5.48	4.61	4.02	3.23	2.909	1.634
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1.60V/cell	108.9	72.4	57.4	45.3	31.8	22.2	17.43	9.84	7.12	5.69	4.79	4.15	3.32	2.992	1.657

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	120.0	89.3	76.6	64.3	47.2	34.4	27.42	15.77	11.63	9.44	8.06	7.09	5.82	4.918	2.867
1.80V/cell	138.7	99.5	83.6	68.5	50.0	36.2	28.60	16.61	12.30	9.92	8.43	7.42	6.07	5.111	2.911
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1.70V/cell	168.5	116.2	96.3	77.9	55.1	39.4	31.21	17.91	13.13	10.58	8.92	7.82	6.31	5.279	2.971
1.67V/cell	180.7	123.1	99.8	80.6	57.2	40.6	32.10	18.40	13.42	10.75	9.08	7.90	6.38	5.345	2.983
1.60V/cell	186.8	127.3	103.1	82.5	58.6	41.5	32.78	18.65	13.59	10.90	9.22	8.02	6.44	5.403	2.999