

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



Maintenance Free-High Rate UPS Battery-TNX Series

TNX12-60W

(12V 63W, 15min@1.67Vpc)

(12V 18.8Ah, 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

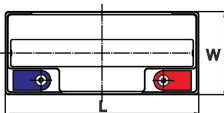
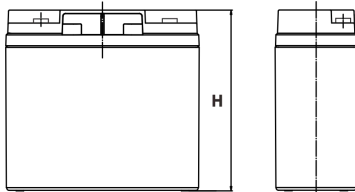
Unit:mm

Length 181.5±2mm / 7.15inch

Width 77±2mm / 3.03inch

Container Height 167.5±3mm / 6.59inch

Total Height 167.5±3mm / 6.59inch



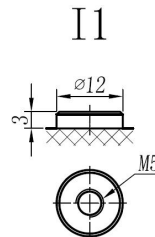
Terminal

Unit:mm

Terminal Type: I1

Weight

5.78kg 12.78lbs



This document is subject to change without prior notification

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



TNX12-60W

Specification

Nominal Voltage	12V	
Rated Power (15min Rate 25°C)	63W F.V (1.67V/cell)	
Rated Capacity (10HR 25°C)	18.8Ah (1.80V/cell)	
Dimension	Length	181.5±2mm / 7.15inch
	Width	77±2mm / 3.03inch
	Container Height	167.5±3mm / 6.59inch
	Total Height	167.5±3mm / 6.59inch
Weight	5.78kg / 12.78lbs	
Terminal	I1	
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	5.64A (0.3C)	
Max. Discharge Current (5S)	255A	
Internal Resistance	15mΩ	
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	44.6	33.5	28.4	24.4	18.4	13.6	10.92	6.41	4.68	3.71	3.08	2.64	2.09	1.804	1.004
1.80V/cell	50.1	36.8	31.2	26.4	19.4	14.3	11.33	6.59	4.84	3.87	3.22	2.78	2.19	1.880	1.015
1.75V/cell	55.2	39.9	33.2	27.8	20.3	14.8	11.74	6.79	4.98	3.95	3.30	2.84	2.23	1.901	1.025
1.70V/cell	61.4	43.1	35.0	29.0	21.1	15.3	12.15	6.99	5.10	4.04	3.38	2.90	2.27	1.930	1.036
1.67V/cell	65.5	45.2	36.5	29.9	21.6	15.8	12.46	7.15	5.23	4.12	3.42	2.95	2.31	1.954	1.047
1.60V/cell	68.6	47.6	37.9	30.9	22.2	16.1	12.67	7.27	5.31	4.19	3.47	2.98	2.33	1.965	1.057

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	82.0	61.7	52.7	45.3	34.5	25.7	20.77	12.26	9.00	7.16	5.95	5.12	4.07	3.393	1.890
1.80V/cell	89.2	66.3	56.9	48.6	36.1	26.9	21.42	12.53	9.24	7.42	6.19	5.37	4.26	3.530	1.907
1.75V/cell	97.4	71.3	59.9	50.8	37.4	27.7	22.10	12.85	9.47	7.55	6.33	5.47	4.32	3.566	1.925
1.70V/cell	106.9	75.9	62.6	52.7	38.6	28.5	22.80	13.22	9.69	7.69	6.46	5.57	4.38	3.617	1.944
1.67V/cell	112.4	78.6	63.4	53.8	39.4	29.1	23.25	13.47	9.88	7.82	6.52	5.64	4.45	3.657	1.962
1.60V/cell	115.5	81.4	65.8	54.5	39.9	29.4	23.47	13.63	9.99	7.94	6.60	5.69	4.48	3.671	1.979

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

TNX12-60W

(12V 63W, 15min@1.67Vpc)

(12V 18.8Ah, 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



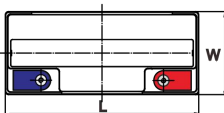
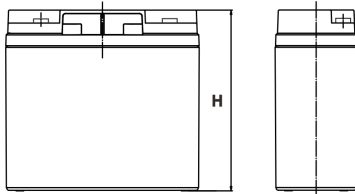
产品应用

- 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	181.5±2mm / 7.15inch
宽	77±2mm / 3.03inch
高	167.5±3mm / 6.59inch
总高	167.5±3mm / 6.59inch



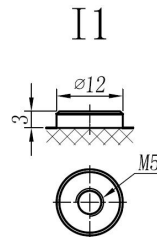
端子类型

单位:mm

端子类型 I1

重量

5.78kg 12.78lbs



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



TNX12-60W

规格书

额定电压	12V	
15分钟放电功率	63W F.V (1.67V/cell)	
额定容量 (10小时)	18.8Ah (1.80V/cell)	
尺寸	长	181.5±2mm
	宽	77±2mm
	高	167.5±3mm
	总高	167.5±3mm
重量	5.78kg	
端子	I1	
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	5.64A (0.3C)	
最大放电电流 (5S)	255A	
电阻	15mΩ	
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	44.6	33.5	28.4	24.4	18.4	13.6	10.92	6.41	4.68	3.71	3.08	2.64	2.09	1.804	1.004
1.80V/cell	50.1	36.8	31.2	26.4	19.4	14.3	11.33	6.59	4.84	3.87	3.22	2.78	2.19	1.880	1.015
1.75V/cell	55.2	39.9	33.2	27.8	20.3	14.8	11.74	6.79	4.98	3.95	3.30	2.84	2.23	1.901	1.025
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1.60V/cell	68.6	47.6	37.9	30.9	22.2	16.1	12.67	7.27	5.31	4.19	3.47	2.98	2.33	1.965	1.057

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	82.0	61.7	52.7	45.3	34.5	25.7	20.77	12.26	9.00	7.16	5.95	5.12	4.07	3.393	1.890
1.80V/cell	89.2	66.3	56.9	48.6	36.1	26.9	21.42	12.53	9.24	7.42	6.19	5.37	4.26	3.530	1.907
1.75V/cell	97.4	71.3	59.9	50.8	37.4	27.7	22.10	12.85	9.47	7.55	6.33	5.47	4.32	3.566	1.925
1.70V/cell	106.9	75.9	62.6	52.7	38.6	28.5	22.80	13.22	9.69	7.69	6.46	5.57	4.38	3.617	1.944
1.67V/cell	112.4	78.6	63.4	53.8	39.4	29.1	23.25	13.47	9.88	7.82	6.52	5.64	4.45	3.657	1.962
1.60V/cell	115.5	81.4	65.8	54.5	39.9	29.4	23.47	13.63	9.99	7.94	6.60	5.69	4.48	3.671	1.979