☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

TN POWER

Energy Storage Battery-AGM-GEL Technology-TNG Series

TNG12-17

(12V 17Ah)

GENERAL FEATURES

- Oxygen recombination technology: maintenance-free, no need to add water or acid
- The patent grid alloy:less gassing, low self-discharge, excellent corrossion resistance
- Special paste formula: additives for deep discharge, long cycle life
- High quality AGM separator: extend cycle life and prevent micro short circuit
- The patent Nano silica electrolytes, extend cycle life and improve the deep discharge performance
- ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)

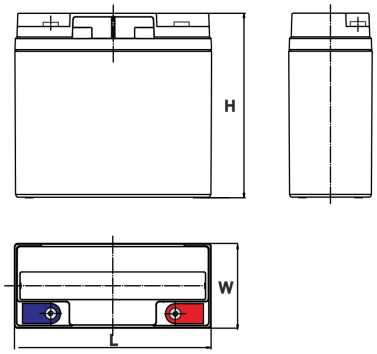
Application

- Renewable energy system
- Hybrid solar power system
- Uninterrupted Power Supply (UPS)
- Communications and electric equipment
- Emergency lighting equipment
- Fire alarm and security systems
- Robots, control equipment, and other factory automation equipment
- Emergency power supply (EPS)
- Various power toy and hobby equipment
- Lighting equipment

Dimension

Unit:mm

Length	181±2mm	/	7.13inch
Width	77±2mm	/	3.03inch
Container Height	167±3mm	/	6.57inch
Total Height	167±3mm	/	6.57inch



Terminal

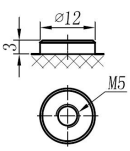
Unit:mm

Terminal Type: I1

Weight

5.4kg 11.9lbs

I1



ISO9001 ISO14001 OHSAS18001

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No.18th, Baoqiao Road, Huaxi Industrial Zone of Changxing County, Zhejiang, China

☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

TNG12-17

Specificaion

Nominal Voltage		12V
Rated Capacity(25°C)		17.35Ah 20hr Rate(1.80V/cell)
		15.83Ah 10hr Rate(1.80V/cell)
		14.44Ah 5hr Rate(1.75V/cell)
		13.36Ah 3hr Rate(1.70V/cell)
		10.67Ah 1hr Rate(1.60V/cell)
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 Voltage	**Float Voltage**	2.25 -2.30V/cell@25°C, Tem. Coefficient: -3mV/cell/°C
	Equalize Voltage	2.35 -2.40V/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		5.1A (0.3C)
Max. Discharge Current (5S)		232.5A
Internal Resistance		17mΩ
Self Discharge		<3%, TN 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	31.8	24.3	20.2	17.4	13.4	10.1	8.54	5.05	3.95	3.22	2.62	2.28	1.84	1.53	0.856
1.80V/cell	42.6	31.1	24.5	20.7	15.9	11.7	9.57	5.52	4.26	3.43	2.81	2.44	1.95	1.58	0.868
1.75V/cell	48.0	34.2	26.7	22.2	16.6	12.2	10.01	5.72	4.34	3.51	2.89	2.50	1.98	1.62	0.879
1.70V/cell	52.9	37.3	28.5	23.3	17.2	12.6	10.33	5.87	4.45	3.60	2.96	2.56	2.01	1.65	0.891
1.65V/cell	58.4	40.2	30.2	24.8	18.1	13.0	10.57	5.95	4.64	3.73	3.05	2.62	2.04	1.68	0.902
1.60V/cell	64.4	43.7	32.3	26.5	19.2	13.5	10.67	6.21	4.78	3.84	3.15	2.67	2.06	1.71	0.914

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	58.0	45.0	37.7	32.9	25.8	19.1	16.31	9.67	7.60	6.20	5.07	4.44	3.59	3.04	1.666
1.80V/cell	77.1	56.9	44.9	38.3	29.9	22.1	18.10	10.49	8.13	6.58	5.42	4.74	3.80	3.13	1.677
1.75V/cell	85.0	61.5	48.5	40.9	30.8	22.7	18.88	10.84	8.24	6.70	5.54	4.85	3.85	3.21	1.699
1.70V/cell	91.0	65.5	51.0	42.6	31.9	23.5	19.44	11.08	8.47	6.87	5.67	4.94	3.91	3.27	1.722
1.65V/cell	99.0	70.0	53.8	44.9	33.3	23.9	19.66	11.17	8.79	7.08	5.81	5.04	3.95	3.33	1.745
1.60V/cell	106.7	74.4	56.6	47.3	34.9	24.8	19.77	11.62	9.02	7.28	5.98	5.13	3.99	3.36	1.756

No.18th, Baoqiao Road, Huaxi Industrial Zone of Changxing County, Zhejiang, China

☐ 动力电池　　■ 储能电池

☐ 备用电池　　☐ 摩托车电池

TN POWER

储能电池-AGM-凝胶技术-TNG系列

TNG12-17

(12V 17Ah)

产品特点

- 阀控式免维护设计，寿命期间无需加水或加酸
- 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- 特制组成配方，添加特殊试剂，增进深放电性能，延长循环寿命
- 高质量AGM隔板：防止微短路，延长循环寿命
- 纳米硅胶专利电解质，延长循环寿命，增进深放电性能
- ABS壳盖：电池外壳强度强（阻燃壳体UL94-V0可选）

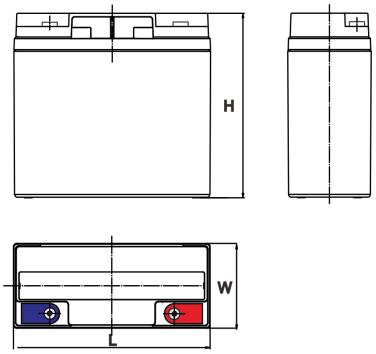
产品应用

- 可再生能源系统
- 太阳能混合动力系统
- 不间断电源 (UPS)
- 通信及电力设备
- 应急照明系统
- 安防及火灾报警系统
- 机械自动化控制设备
- 应急电源 (EPS)
- 各式电动玩具及娱乐设施
- 照明设备

尺寸

单个尺寸

长	181±2mm	/ 7.13inch
宽	77±2mm	/ 3.03inch
高	167±3mm	/ 6.57inch
总高	167±3mm	/ 6.57inch



端子类型

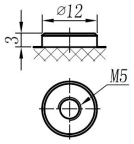
单位:mm

端子类型	I1

重量

5.4kg	11.9lbs

I1



ISO9001　ISO14001　OHSAS18001

内容如有改动， 恕不另行通知

浙江省长兴画溪工业区包桥路18号天能集团　邮编：313199

☐动力电池 ■ 储能电池

☐备用电池 ☐ 摩托车电池

TN POWER

TNG12-17

规格书

额定电压		12V
容量(25°C)		17.35Ah 20hr Rate(1.80V/cell)
		15.83Ah 10hr Rate(1.80V/cell)
		14.44Ah 5hr Rate(1.75V/cell)
		13.36Ah 3hr Rate(1.70V/cell)
		10.67Ah 1hr Rate(1.60V/cell)
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%
充电电压	浮充	2.25 -2.30V/单格@25°C, 温度补偿系数： -3mV/单格/°C
	均充	2.35 -2.40V/单格@25°C, 温度补偿系数： -3mV/单格/°C
	循环使用	2.40 -2.50V/单格@25°C, 温度补偿系数： -5mV/单格/°C
最大充电电流		5.1A (0.3C)
最大放电电流(5S)		232.5A
电阻		17mΩ
自放电		<3%, TN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	31.8	24.3	20.2	17.4	13.4	10.1	8.54	5.05	3.95	3.22	2.62	2.28	1.84	1.53	0.856
1.80V/cell	42.6	31.1	24.5	20.7	15.9	11.7	9.57	5.52	4.26	3.43	2.81	2.44	1.95	1.58	0.868
1.75V/cell	48.0	34.2	26.7	22.2	16.6	12.2	10.01	5.72	4.34	3.51	2.89	2.50	1.98	1.62	0.879
1.70V/cell	52.9	37.3	28.5	23.3	17.2	12.6	10.33	5.87	4.45	3.60	2.96	2.56	2.01	1.65	0.891
1.65V/cell	58.4	40.2	30.2	24.8	18.1	13.0	10.57	5.95	4.64	3.73	3.05	2.62	2.04	1.68	0.902
1.60V/cell	64.4	43.7	32.3	26.5	19.2	13.5	10.67	6.21	4.78	3.84	3.15	2.67	2.06	1.71	0.914

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	58.0	45.0	37.7	32.9	25.8	19.1	16.31	9.67	7.60	6.20	5.07	4.44	3.59	3.04	1.666
1.80V/cell	77.1	56.9	44.9	38.3	29.9	22.1	18.10	10.49	8.13	6.58	5.42	4.74	3.80	3.13	1.677
1.75V/cell	85.0	61.5	48.5	40.9	30.8	22.7	18.88	10.84	8.24	6.70	5.54	4.85	3.85	3.21	1.699
1.70V/cell	91.0	65.5	51.0	42.6	31.9	23.5	19.44	11.08	8.47	6.87	5.67	4.94	3.91	3.27	1.722
1.65V/cell	99.0	70.0	53.8	44.9	33.3	23.9	19.66	11.17	8.79	7.08	5.81	5.04	3.95	3.33	1.745
1.60V/cell	106.7	74.4	56.6	47.3	34.9	24.8	19.77	11.62	9.02	7.28	5.98	5.13	3.99	3.36	1.756

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