☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

TN POWER

Industry Battery-General Purpose AGM Battery-TN Series

TN12-200

(12V 200Ah)

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
- Design life is 7~9 years at 25°C under standby application, deep discharge recoverability
- High quality AGM separator: extend cycle life and prevent micro short circuit
- ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)

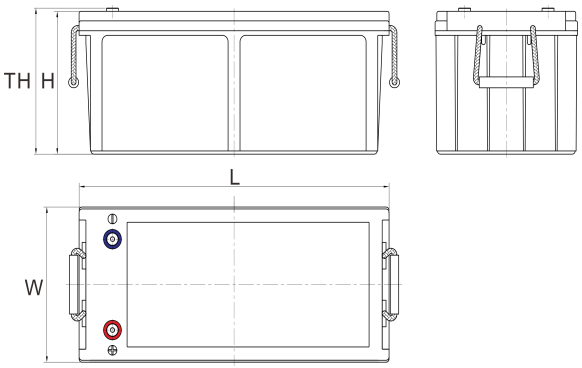
Application

- Uninterrupted Power Supply (UPS)
- Communications and electric equipment
- Emergency lighting equipment
- Fire alarm and security system
- Control equipment, and other factory automation equipment
- Emergency power supply (EPS)
- Portable VTR/TV, radio and so on
- Power tools, lawn mowers, vacuum clearners
- Cameras and photographic equipment
- Portable measuring equipment
- Portable telephone sets
- Various power toys and hobby equipment
- Lighting equipment

Dimension

Unit:mm

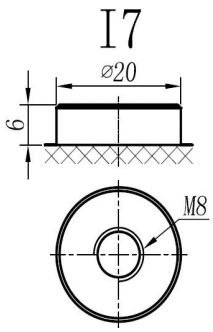
Length	520±2mm	/	20.47inch
Width	239±2mm	/	9.41inch
Container Height	220±3mm	/	8.66inch
Total Height	225±3mm	/	8.86inch



Terminal

Unit:mm

Terminal Type: I7



Weight

59.1kg 130.29lbs

ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

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

☐ Motive Battery ■ Energy Storage Battery

■ Reserve Battery ☐ Motorcycle Battery

TN12-200

Specificaion

Nominal Voltage		12V
Rated Capacity(25°C)		208Ah 20hr Rate (1.80V/cell)
		200Ah 10hr Rate (1.80V/cell)
		175Ah 5hr Rate (1.75V/cell)
		163Ah 3hr Rate (1.70V/cell)
		124Ah 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	**Float Voltage**	2.23 -2.27V/cell@25℃, Tem.Coefficient： -3mV/cell/℃
	Equalize Voltage	2.35 -2.40V/cell@25℃, Tem.Coefficient： -3mV/cell/℃
	Cycle Voltage	2.40 -2.50V/cell@25℃, Tem.Coefficient： -5mV/cell℃
Max. Charging Current		60A （0.3C）
Max. Discharge Current (5S)		2000A
Internal Resistance		2.7mΩ
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	278.7	240.2	204.8	155.0	116.8	95.71	61.00	46.89	38.16	31.77	27.47	22.32	18.92	10.310
1.80V/cell	344.2	282.7	236.0	179.7	135.9	107.18	66.48	51.36	41.21	34.10	29.49	23.63	20.02	10.410
1.75V/cell	378.2	302.3	250.5	189.4	141.1	112.16	69.02	52.78	42.33	35.02	30.30	24.04	20.22	10.511
1.70V/cell	412.2	322.8	264.3	196.6	146.7	115.71	71.76	54.30	43.34	35.83	30.91	24.44	20.42	10.711
1.67V/cell	444.8	343.2	281.7	204.8	150.3	119.57	73.79	56.64	44.86	36.84	31.61	24.95	20.82	10.811
1.60V/cell	476.9	367.1	297.9	216.2	156.7	123.83	76.23	58.36	46.18	37.86	32.32	25.35	21.02	10.911

Constant Power Discharge Table (25°C/77°F) Unit: W

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	514.8	448.2	386.1	295.3	221.5	182.08	116.72	90.19	73.47	61.36	53.55	43.64	37.44	20.420
1.80V/cell	628.3	520.4	438.4	337.2	255.7	202.80	126.53	98.20	78.98	65.57	57.26	46.15	39.54	20.621
1.75V/cell	679.4	549.7	460.7	352.6	262.8	211.21	130.73	100.60	80.78	67.27	58.66	46.85	39.94	20.721
1.70V/cell	723.7	578.8	482.5	363.9	272.3	217.22	135.74	103.20	82.68	68.67	59.76	47.45	40.24	21.121
1.67V/cell	773.9	610.7	510.4	376.1	276.6	222.92	138.64	107.11	85.19	70.27	60.86	48.45	41.04	21.421
1.60V/cell	810.6	642.3	533.9	394.2	286.7	229.63	142.64	109.91	87.39	72.07	61.96	49.05	41.44	21.522

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

阀控式免维护铅酸蓄电池 -通用型

TN12-200

(12V 200Ah)

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
- 在25°C下，产品浮充设计寿命为7~9年，优良的深放电恢复能力
- 高质量AGM隔板：防止微短路，延长循环寿命
- ABS壳盖：电池外壳强度强（阻燃壳体UL94-V0可选）

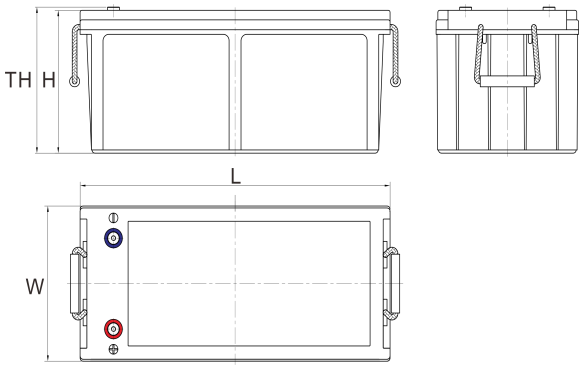
产品应用

- 不间断电源(UPS)
- 通信和电力设备
- 紧急照明设备
- 火灾报警及安防系统
- 控制设备及其他机械自动化设备
- 应急电源系统
- 便携式音频设备
- 电动工具，割草机，真空吸尘器
- 照相设备
- 便携式测量工具
- 便携式通话设备
- 各式电动玩具及娱乐设施
- 照明设备

尺寸

单个尺寸

长	520±2mm
宽	239±2mm
高	220±3mm
总高	225±3mm



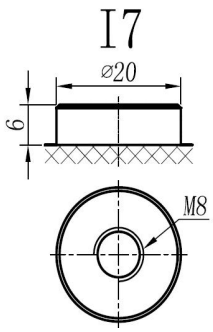
端子类型

单位:mm

端子类型	I7

重量

59.1kg	130.29lbs



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

TN12-200

规格书

额定电压		12V
容量(25°C)		208Ah 20hr Rate (1.80V/cell)
		200Ah 10hr Rate (1.80V/cell)
		175Ah 5hr Rate (1.75V/cell)
		163Ah 3hr Rate (1.70V/cell)
		124Ah 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	**浮充电压**	2.23 -2.27V/单格@25°C, 温度补偿系数： -3mV/单格/°C
	均充电压	2.35 -2.40V/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		60A （0.3C）
最大放电电流（5S）		2000A
电阻		2.7mΩ
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	278.7	240.2	204.8	155.0	116.8	95.71	61.00	46.89	38.16	31.77	27.47	22.32	18.92	10.310
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1.75V/cell	378.2	302.3	250.5	189.4	141.1	112.16	69.02	52.78	42.33	35.02	30.30	24.04	20.22	10.511
1.70V/cell	412.2	322.8	264.3	196.6	146.7	115.71	71.76	54.30	43.34	35.83	30.91	24.44	20.42	10.711
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1.60V/cell	476.9	367.1	297.9	216.2	156.7	123.83	76.23	58.36	46.18	37.86	32.32	25.35	21.02	10.911

恒功率放电表（25°C/77°F） 单位：W

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	514.8	448.2	386.1	295.3	221.5	182.08	116.72	90.19	73.47	61.36	53.55	43.64	37.44	20.420
1.80V/cell	628.3	520.4	438.4	337.2	255.7	202.80	126.53	98.20	78.98	65.57	57.26	46.15	39.54	20.621
1.75V/cell	679.4	549.7	460.7	352.6	262.8	211.21	130.73	100.60	80.78	67.27	58.66	46.85	39.94	20.721
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