☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

Energy Storage Battery-Tubular GEL Technology-OPzV Series

12OPzV1500

(2V 1500Ah)

GENERAL FEATURES

- 20 years design life at floating condition
- Wide operating temperature range from -40℃ to +60℃
- Tulular positive plate with prolonged cycle life
- Fumed silica gel electrolyte
- Lead calcium die case grid with improved corrosion resistence ability
- Low self-discharge rate and long shelf life
- Excellent deep discharge recovery capability

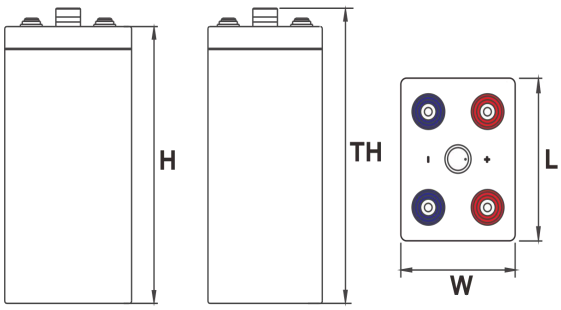
Application

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

Dimension

Unit:mm

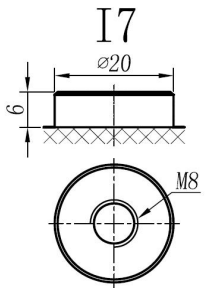
Length	275±2mm	/	10.83inch
Width	210±2mm	/	8.27inch
Container Height	796±3mm	/	31.34inch
Total Height	831±3mm	/	32.72inch



Terminal

Unit:mm

Terminal Type	I7



Weight

115kg	253.53lbs

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

12OPzV1500

Specificaion

Nominal Voltage		2V	
Rated Capacity(25°C)		1590Ah	20hr Rate(1.80V/cell)
		1500Ah	10hr Rate(1.80V/cell)
		1286Ah	5hr Rate(1.75V/cell)
		1156Ah	3hr Rate(1.70V/cell)
		850Ah	1hr Rate(1.60V/cell)
Container Material		ABS （Fire-proofing ABS container available）	
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,Compensation Factor： -3mV/cell/℃	
	Equalize Voltage	2.35 -2.40V/cell@25°C, Compensation Factor： -3mV/cell/℃	
	Cycle Voltage	2.40 -2.50V/cell@25°C, Compensation Factor： -5mV/cell℃	
Max Charging Current		450A (0.3C)	
Max. Discharge Current (5S)		12000A	
Internal Resistance		0.3mΩ	
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	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	876.9	854.9	781.8	666.7	436.4	339.3	233.2	164.16	140.01	74.20
1.80V/cell	1078.1	1035.0	910.9	750.8	479.5	369.4	252.3	175.18	150.02	79.50
1.75V/cell	1275.3	1158.2	971.0	781.8	492.5	377.4	257.3	178.18	152.02	80.56
1.70V/cell	1431.4	1264.3	1028.0	811.8	504.5	385.4	261.3	180.18	154.02	81.62
1.65V/cell	1536.5	1334.3	1069.1	834.8	515.5	392.4	265.3	183.18	156.02	82.68
1.60V/cell	1607.6	1382.4	1096.1	849.8	522.5	396.4	267.3	184.18	157.02	83.21

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1630.6	1606.6	1493.5	1289.3	847.8	661.7	459.5	324.3	279.28	148.75
1.80V/cell	1970.0	1917.9	1723.7	1443.4	926.9	717.7	493.5	346.3	298.30	158.88
1.75V/cell	2290.3	2116.1	1818.8	1492.5	946.9	730.7	501.5	351.4	302.30	161.01
1.70V/cell	2524.5	2276.3	1904.9	1539.5	967.0	742.7	507.5	355.4	305.31	162.61
1.65V/cell	2662.7	2367.4	1962.0	1573.6	982.0	752.8	513.5	359.4	308.31	164.21
1.60V/cell	2732.7	2416.4	1991.0	1589.6	990.0	757.8	517.5	360.4	309.31	164.75

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

储能电池-管式胶体技术-OPzV系列

12OPzV1500

(2V 1500Ah)

产品特点

- 20年设计浮充寿命
- 使用温度区间宽广，在-40℃至+60℃之间均可正常使用
- 管式正极板设计，大大延长使用寿命
- 气象二氧化硅凝胶电解质
- 铅钙板栅显著提升抗腐蚀能力
- 自放电率低，能够长时间放置保存
- 出色的深放电恢复能力

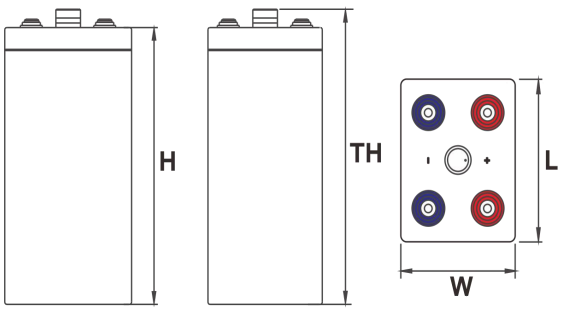
产品应用

- 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
- 控制设备及其他工厂自动化设备
- 应急电源（EPS）
- 照明设备

尺寸

单个尺寸

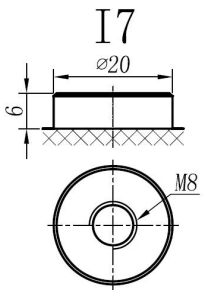
长	275±2mm
宽	210±2mm
高	796±3mm
总高	831±3mm



端子类型

单位:mm

端子类型	I7



重量

115kg	253.53lbs

ISO9001 ISO14001 OHSAS18001

内容如有改动， 恕不另行通知

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

规格书

12OPzV1500

额定电压		2V	
容量(25°C)		1590Ah	20hr Rate(1.80V/cell)
		1500Ah	10hr Rate(1.80V/cell)
		1286Ah	5hr Rate(1.75V/cell)
		1156Ah	3hr Rate(1.70V/cell)
		850Ah	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, 补偿系数： -3mV/单格/°C	
	均充	2.35 -2.40V/单格@25°C, 补偿系数： -3mV/单格/°C	
	循环使用	2.40 -2.50V/单格@25°C, 补偿系数： -5mV/单格/°C	
最大充电电流		450A (0.3C)	
最大放电电流（5S）		12000A	
电阻		0.3mΩ	
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	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	876.9	854.9	781.8	666.7	436.4	339.3	233.2	164.2	140.0	74.2
1.80V/cell	1078.1	1035.0	910.9	750.8	479.5	369.4	252.3	175.2	150.0	79.5
1.75V/cell	1275.3	1158.2	971.0	781.8	492.5	377.4	257.3	178.2	152.0	80.6
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1.65V/cell	1536.5	1334.3	1069.1	834.8	515.5	392.4	265.3	183.2	156.0	82.7
1.60V/cell	1607.6	1382.4	1096.1	849.8	522.5	396.4	267.3	184.2	157.0	83.2

恒功率放电表 (25°C/77°F)　单位：W

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1630.6	1606.6	1493.5	1289.3	847.8	661.7	459.5	324.3	279.3	148.7
1.80V/cell	1970.0	1917.9	1723.7	1443.4	926.9	717.7	493.5	346.3	298.3	158.9
1.75V/cell	2290.3	2116.1	1818.8	1492.5	946.9	730.7	501.5	351.4	302.3	161.0
1.70V/cell	2524.5	2276.3	1904.9	1539.5	967.0	742.7	507.5	355.4	305.3	162.6
1.65V/cell	2662.7	2367.4	1962.0	1573.6	982.0	752.8	513.5	359.4	308.3	164.2
1.60V/cell	2732.7	2416.4	1991.0	1589.6	990.0	757.8	517.5	360.4	309.3	164.7

浙江省长兴画溪工业区包桥路18号天能集团　邮编：313199