

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°C to +60°C
- ◆ Tubular positive plate with prolonged cycle life
- ◆ Fumed silica gel electrolyte
- ◆ Lead calcium die case grid with improved corrosion resistance ability
- ◆ Low self-discharge rate and long shelf life
- ◆ Excellent deep discharge recovery capability



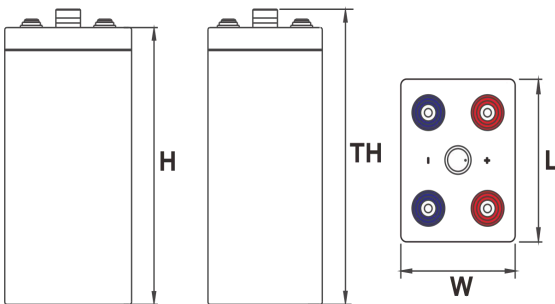
Application

- ◆ 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

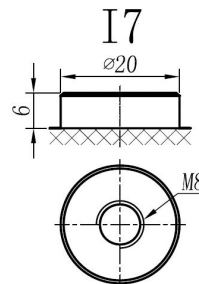
| | | | |
|------------------|---------|---|-----------|
| Length | 275±2mm | / | 10.83inch |
| Width | 210±2mm | / | 8.27inch |
| Container Height | 796±3mm | / | 31.34inch |
| Total Height | 831±3mm | / | 32.72inch |



Terminal

Unit:mm

Terminal Type I7



Weight

115kg 253.53lbs



This document is subject to change without prior notification

Motive Battery Energy Storage Battery

Reserve Battery Motorcycle Battery



12OPzV1500

Specification

| | | |
|---|--|---|
| 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/°C |
| | Equalize Voltage | 2.35 -2.40V/cell@25°C, Compensation Factor : -3mV/cell/°C |
| | Cycle Voltage | 2.40 -2.50V/cell@25°C, Compensation Factor : -5mV/cell/°C |
| 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 |

□ 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°C至+60°C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



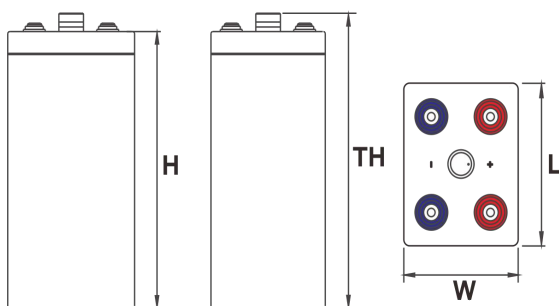
产品应用

- ◆ 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 |



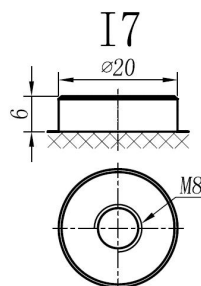
端子类型

单位:mm

端子类型 I7

重量

115kg 253.53lbs



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



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 |
| 1.70V/cell | 1431.4 | 1264.3 | 1028.0 | 811.8 | 504.5 | 385.4 | 261.3 | 180.2 | 154.0 | 81.6 |
| 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 |