

Motive Battery Energy Storage Battery

Reserve Battery Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

70PzV490

(2V 490Ah)

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



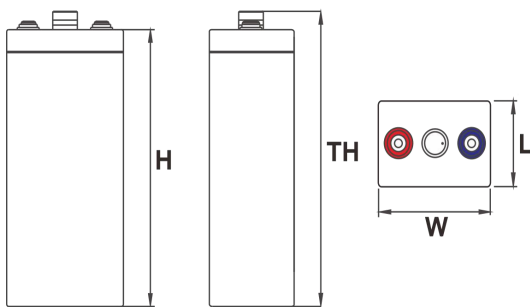
Application

- ◆ 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	166±2mm	/	6.54inch
Width	206±2mm	/	8.11inch
Container Height	471±3mm	/	18.54inch
Total Height	506±3mm	/	19.92inch



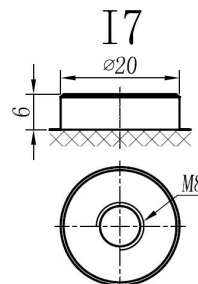
Terminal

Unit:mm

Terminal Type I7

Weight

39kg 85.98lbs



This document is subject to change without prior notification

Motive Battery Energy Storage Battery

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70PzV490

Specification

Nominal Voltage	2V	
Rated Capacity(25°C)	519Ah	20hr Rate(1.80V/cell)
	490Ah	10hr Rate(1.80V/cell)
	427Ah	5hr Rate(1.75V/cell)
	387Ah	3hr Rate(1.70V/cell)
	279Ah	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	147A (0.3C)	
Max. Discharge Current (5S)	3920A	
Internal Resistance	0.73mΩ	
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	384.4	354.4	289.3	219.2	147.1	113.1	77.7	54.25	45.90	24.33
1.80V/cell	472.5	429.4	337.3	247.2	162.2	123.1	83.8	58.06	49.00	25.97
1.75V/cell	559.6	480.5	359.4	257.3	166.2	126.1	85.4	59.06	49.80	26.39
1.70V/cell	627.6	523.5	380.4	267.3	170.2	129.1	86.8	59.86	50.31	26.66
1.65V/cell	673.7	553.6	395.4	274.3	174.2	131.1	88.1	60.56	50.91	26.98
1.60V/cell	704.7	572.6	405.4	279.3	176.2	133.1	89.0	61.06	51.21	27.14

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	714.7	665.7	552.6	424.4	286.3	221.2	153.2	107.11	91.39	48.68
1.80V/cell	863.9	794.8	637.6	474.5	313.3	240.2	164.2	115.12	97.40	51.88
1.75V/cell	1004.0	876.9	672.7	491.5	320.3	244.2	167.2	116.12	98.80	52.62
1.70V/cell	1107.1	942.9	704.7	506.5	326.3	248.2	169.2	118.12	99.80	53.16
1.65V/cell	1167.2	981.0	725.7	517.5	332.3	252.3	171.2	119.12	101.10	53.85
1.60V/cell	1198.2	1001.0	736.7	523.5	334.3	253.3	172.2	120.12	102.10	54.38

□ 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

70PzV490

(2V 490Ah)

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



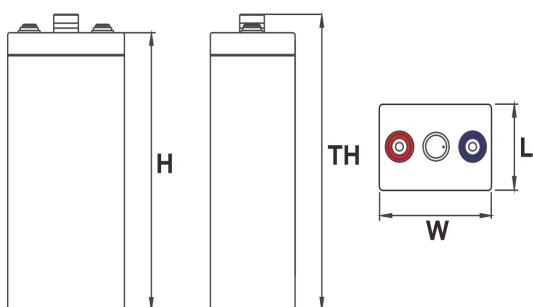
产品应用

- ◆ 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	166±2mm
宽	206±2mm
高	471±3mm
总高	506±3mm



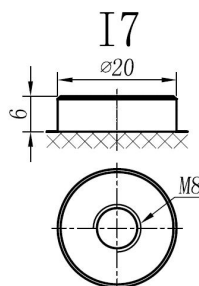
端子类型

单位:mm

端子类型 I7

重量

39kg 85.98lbs



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



70PzV490

规格书

额定电压	2V	
容量(25°C)	519Ah	20hr Rate(1.80V/cell)
	490Ah	10hr Rate(1.80V/cell)
	427Ah	5hr Rate(1.75V/cell)
	387Ah	3hr Rate(1.70V/cell)
	279Ah	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	147A (0.3C)	
最大放电电流 (5S)	3920A	
电阻	0.73mΩ	
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	384.4	354.4	289.3	219.2	147.1	113.1	77.7	54.3	45.9	24.3
1.80V/cell	472.5	429.4	337.3	247.2	162.2	123.1	83.8	58.1	49.0	26.0
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1.70V/cell	627.6	523.5	380.4	267.3	170.2	129.1	86.8	59.9	50.3	26.7
1.65V/cell	673.7	553.6	395.4	274.3	174.2	131.1	88.1	60.6	50.9	27.0
1.60V/cell	704.7	572.6	405.4	279.3	176.2	133.1	89.0	61.1	51.2	27.1

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	714.7	665.7	552.6	424.4	286.3	221.2	153.2	107.1	91.4	48.7
1.80V/cell	863.9	794.8	637.6	474.5	313.3	240.2	164.2	115.1	97.4	51.9
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1.65V/cell	1167.2	981.0	725.7	517.5	332.3	252.3	171.2	119.1	101.1	53.8
1.60V/cell	1198.2	1001.0	736.7	523.5	334.3	253.3	172.2	120.1	102.1	54.4