

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV600

(2V 600Ah)

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 grid significantly improves the corrosion resistance ability
- ◆ Low self-discharge rate and long shelf life
- ◆ Excellent deep discharge recovery capability



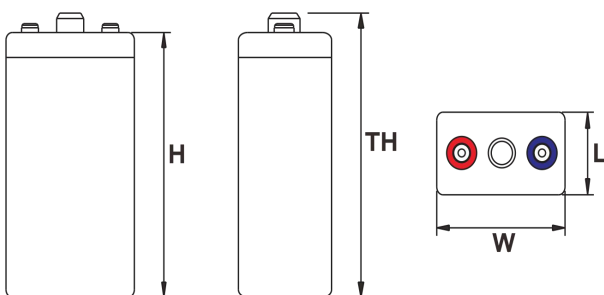
Application

- ◆ 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

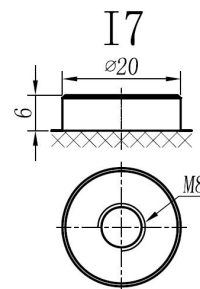
Length	145±2mm / 5.71inch
Width	206±2mm / 8.11inch
Container Height	646±3mm / 25.43inch
Total Height	678±3mm / 26.69inch



Terminal

Unit:mm

Terminal Type: I7



Weight

47.5kg 104.72lbs



This document is subject to change without prior notification

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Specificaion

Nominal Voltage	2V	
Rated Capacity(25°C)	636Ah	20hr Rate(1.80V/cell)
	600Ah	10hr Rate(1.80V/cell)
	524Ah	5hr Rate(1.75V/cell)
	470Ah	3hr Rate(1.70V/cell)
	359Ah	1hr Rate(1.60V/cell)
Container Material	ABS (Fire-proofing ABS container available)	
Operating Temperature Range	Discharge	-40 ~ +60°C
	Charge	0 ~ +40°C
	Storage	-20 ~ +40°C
Capacity Effected by Temperature	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-20°C / -4°F	60%
Charge Voltage	Float Voltage	2.23V/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	120A (0.2C)	
Max. Discharge Current (5S)	3600A	
Internal Resistance	0.42mΩ	
Self Discharge	<3%, OPZV 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	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	453	363	272	187	143	98.4	70.2	58.1	30.7
1.80V/cell	503	400	299	198	150	102	73.0	60.0	31.8
1.75V/cell	537	426	315	208	153	105	74.6	61.5	32.5
1.70V/cell	569	451	331	214	157	107	75.6	62.3	33.1
1.65V/cell	600	475	344	220	159	109	76.8	62.9	33.3
1.60V/cell	633	490	359	223	161	110	77.5	63.6	33.5

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

F.V/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	851	689	521	361	277	192	138	114	60.7
1.80V/cell	925	743	564	379	288	197	142	117	62.4
1.75V/cell	973	781	588	395	293	202	144	119	63.5
1.70V/cell	1015	816	614	404	298	205	146	120	64.4
1.65V/cell	1051	850	634	413	302	208	147	121	64.6
1.60V/cell	1091	864	655	417	304	209	148	122	64.7



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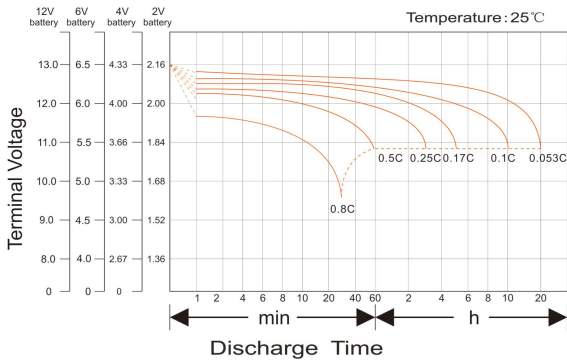


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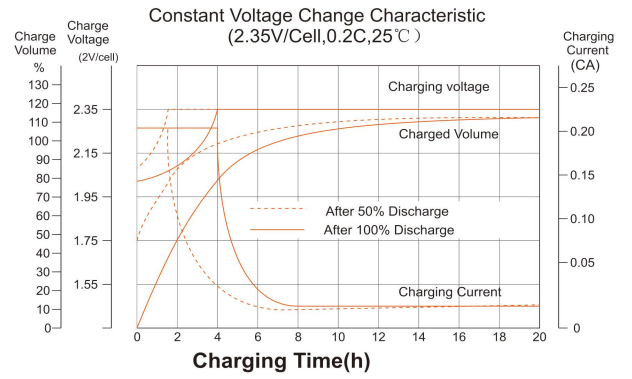


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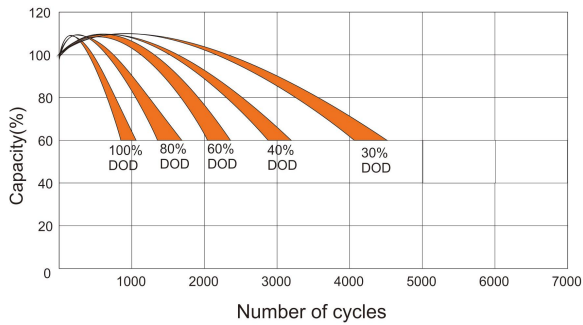
Discharge Characteristics Curve



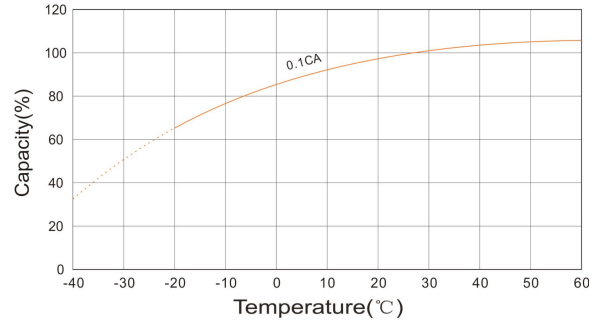
Charging Characteristics Curve



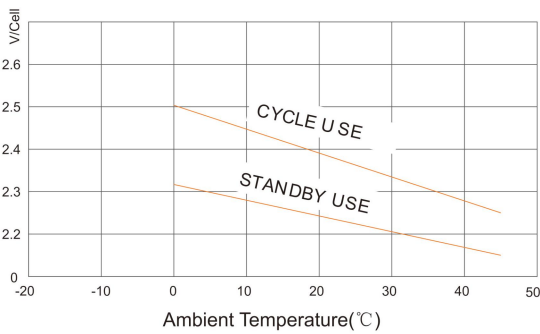
Cycle life in relation to depth of Discharge



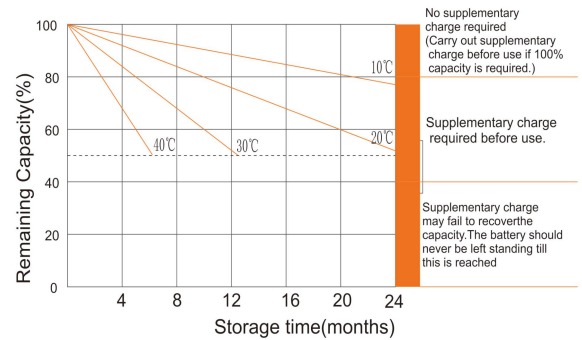
Temperature effects on Capacity



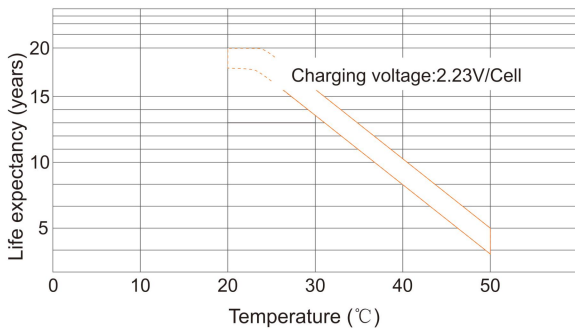
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

