☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

TN POWER

Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV200E

(2V 200Ah)

GENERAL FEATURES

- 20 years design life at floating condition
- Wide operating temperature range from -40℃ to +60℃
- 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

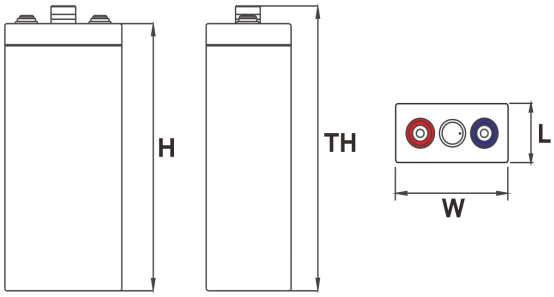
Application

- 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

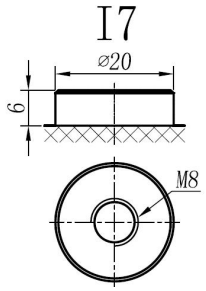
Length	103±2mm	/	4.06inch
Width	206±2mm	/	8.11inch
Container Height	356±3mm	/	14.02inch
Total Height	389±3mm	/	15.31inch



Terminal

Unit:mm

Terminal Type: I7



Weight

18kg 39.68lbs

ISO9001 ISO14001 OHSAS18001

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

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Specificaion

Nominal Voltage		2V
Rated Capacity(25°C)		212Ah 20hr Rate(1.80V/cell)
		200Ah 10hr Rate(1.80V/cell)
		175Ah 5hr Rate(1.75V/cell)
		157Ah 3hr Rate(1.70V/cell)
		120Ah 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/℃
	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		40A (0.2C)
Max. Discharge Current (5S)		1200A
Internal Resistance		0.75mΩ
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	143	115	90.6	62.3	47.6	32.8	23.4	19.4	10.2
1.80V/cell	159	127	99.6	66.0	49.9	34.0	24.3	20.0	10.6
1.75V/cell	170	135	105	69.2	51.1	34.9	24.9	20.5	10.8
1.70V/cell	180	143	110	71.2	52.2	35.7	25.2	20.8	11.0
1.65V/cell	190	150	115	73.2	53.1	36.3	25.6	21.0	11.1
1.60V/cell	200	155	120	74.4	53.6	36.7	25.8	21.2	11.2

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	270	218	174	120	92.3	64.0	45.8	38.1	20.2
1.80V/cell	293	235	188	126	96.0	65.8	47.3	39.0	20.8
1.75V/cell	308	247	196	132	97.7	67.2	48.1	39.8	21.2
1.70V/cell	321	259	205	135	99.3	68.5	48.6	40.1	21.5
1.65V/cell	333	269	211	138	101	69.3	49.2	40.4	21.5
1.60V/cell	346	273	218	139	101	69.8	49.5	40.7	21.6

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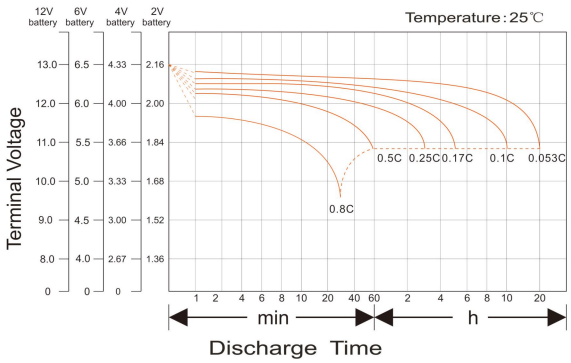
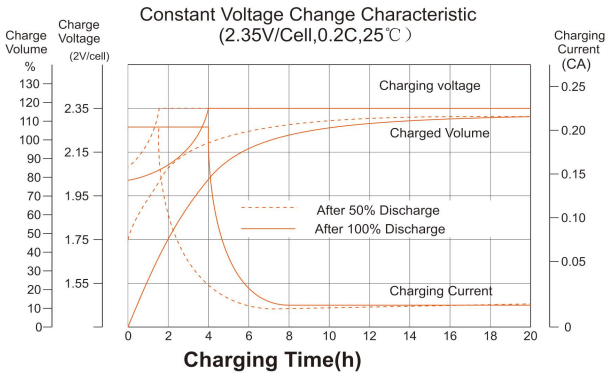
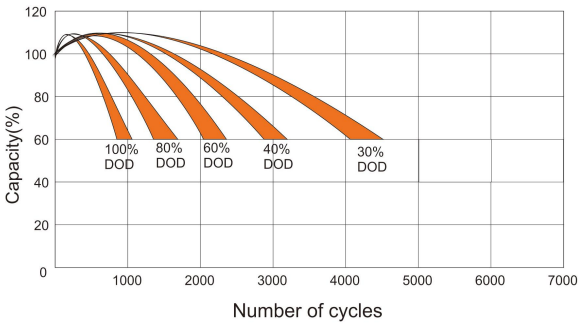
Discharge Characteristics Curve



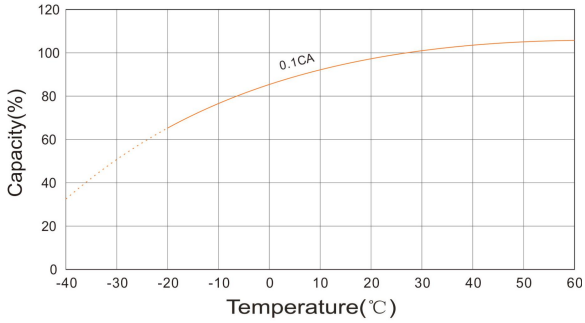
Charging Characteristics Curve



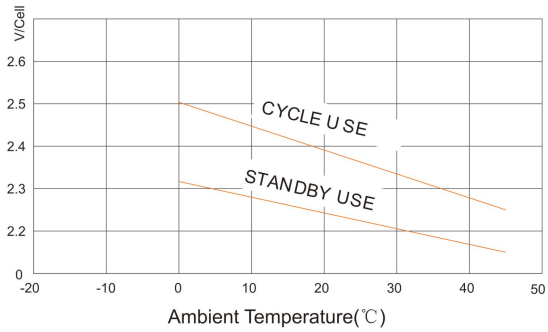
Cycle life in relation to depth of Discharge



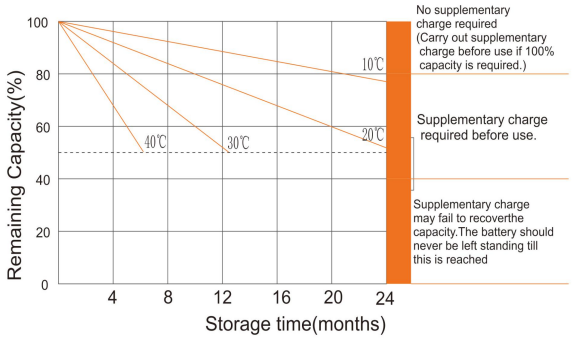
Temperature effects on Capacity



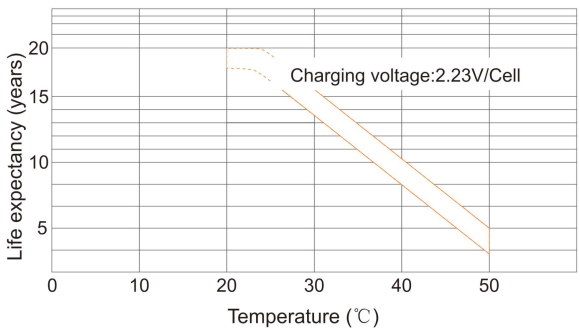
Relationship between charging voltage and temperature



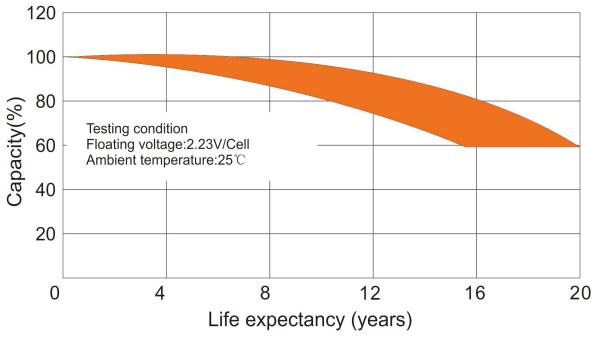
Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use



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