☐ Motive Battery ■ Energy Storage Battery

☐ Reserve Battery ☐ Motorcycle Battery

TN POWER

Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV350E

(2V 350Ah)

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

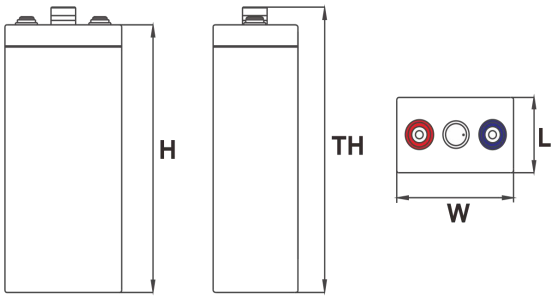
Application

- 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

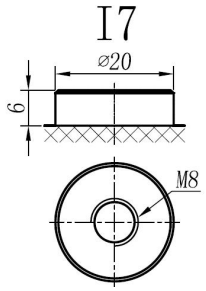
Length	124±2mm	/	4.88inch
Width	206±2mm	/	8.11inch
Container Height	473±3mm	/	18.62inch
Total Height	505±3mm	/	19.88inch



Terminal

Unit:mm

Terminal Type: I7



Weight

27kg 59.52lbs

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)		371Ah	20hr Rate(1.80V/cell)
		350Ah	10hr Rate(1.80V/cell)
		305Ah	5hr Rate(1.75V/cell)
		274Ah	3hr Rate(1.70V/cell)
		209Ah	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		70A (0.2C)	
Max. Discharge Current (5S)			
Internal Resistance		0.6mΩ	
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	251	201	159	109	83.2	57.4	40.9	33.9	17.9
1.80V/cell	279	221	174	116	87.3	59.5	42.6	35.0	18.6
1.75V/cell	298	236	183	121	89.4	61.1	43.5	35.9	19.0
1.70V/cell	316	250	193	125	91.3	62.5	44.1	36.3	19.3
1.65V/cell	333	263	201	128	93.0	63.5	44.8	36.7	19.4
1.60V/cell	351	271	209	130	93.8	64.2	45.2	37.1	19.5

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	472	382	304	210	161	112	80.2	66.6	35.4
1.80V/cell	513	412	329	221	168	115	82.7	68.3	36.4
1.75V/cell	539	433	343	230	171	118	84.2	69.6	37.1
1.70V/cell	563	452	358	236	174	120	85.0	70.2	37.5
1.65V/cell	583	471	370	241	176	121	86.0	70.7	37.7
1.60V/cell	605	479	382	243	177	122	86.5	71.2	37.8

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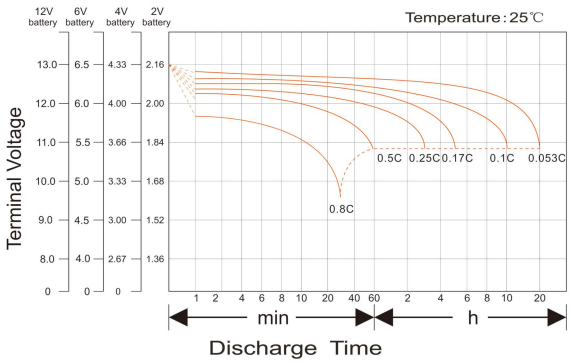
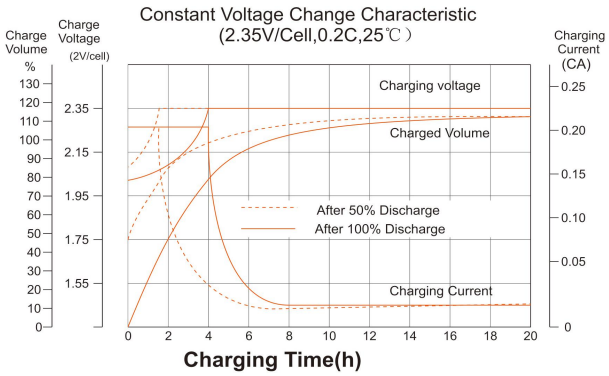
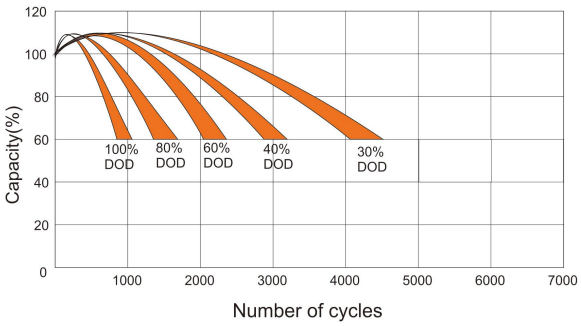
Discharge Characteristics Curve



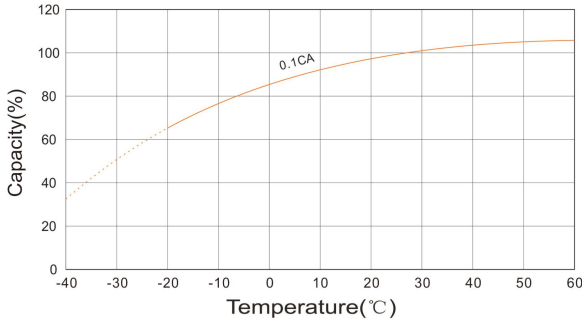
Charging Characteristics Curve



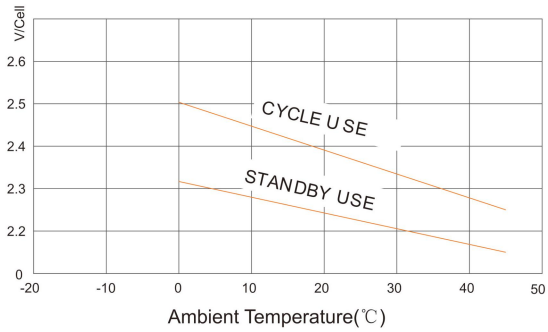
Cycle life in relation to depth of Discharge



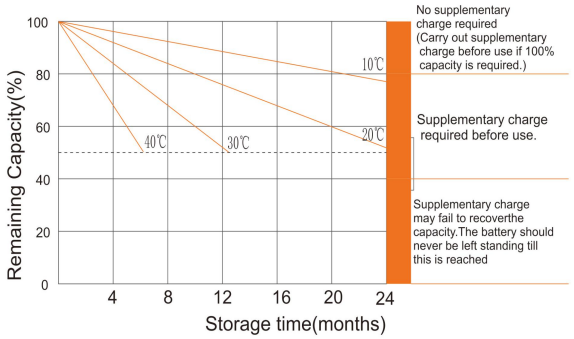
Temperature effects on Capacity



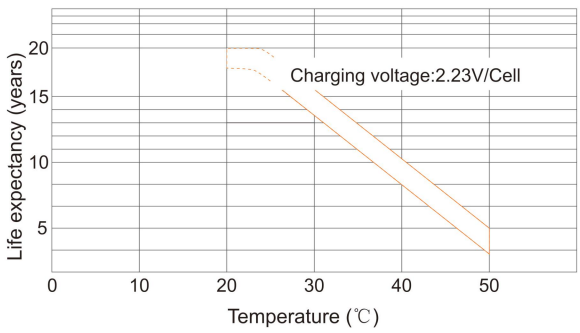
Relationship between charging voltage and temperature



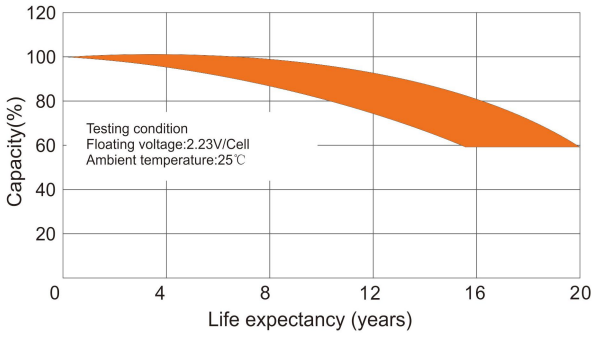
Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use



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