

Energy Storage Battery



Motorcycle Battery



Energy Storage Battery-Tubular GEL Technology-OPzV Series

OPzV300E

(2V 300Ah)

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)

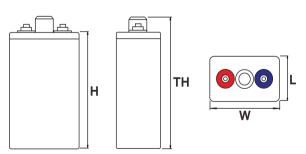
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Lighting equipment

Dimension

Unit:mm			
Length	145±2mm	/	5.71inch
Width	206±2mm	/	8.11inch
Container Height	356±3mm	/	14.02inch
Total Height	389±3mm	/	15.31inch





Terminal	
Unit:mm	
Terminal Type:	

Weight

25.4kg

56lbs

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Tianneng Battery Group Co., Ltd.

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Motive Battery

Energy Storage Battery



Reserve Battery

Motorcycle Battery

OPzV300E

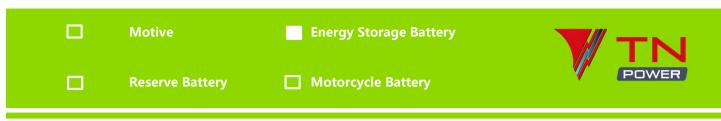
Specificaion						
Nominal Voltag	e	2V				
		318Ah 20hr Rate(1.80V/cell)				
		300Ah 10hr Rate(1.80V/cell)				
Rated Capacity(25°C)		262Ah 5hr Rate(1.75V/cell)				
		235Ah 3hr Rate(1.70V/cell)				
		179Ah 1hr Rate(1.60V/cell)				
Container Mate	rial	ABS (Fire-proofing ABS container available)				
Operating	Discharge	-40 ~ +60°C				
Temperature	Charge	0 ~ +40°C				
Range	Storage	-20 ~ +40°C				
	40°C / 104°F	106%				
Capacity	25°C / 77°F	100%				
Effected by Temperature	0°C / 32°F	86%				
•	-20°C / -4°F	60%				
	Float Voltage	2.23V/cell@25°C,Compensation Factor: -3mV/cell/°C				
Charge Voltage	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 C	Current	60A (0.2C)				
Max. Discharge Current (5S)		1800A				
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

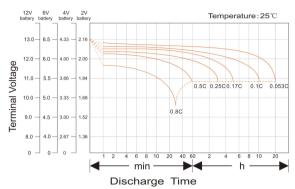
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Constant Current Discharge Table (25°C/77°F) Unit: A									
			1h						
1.85V/cell	215	172	136	93.5	71.3	49.2	35.1	29.0	15.3
1.80V/cell	239	190	149	99.0	74.8	51.0	36.5	30.0	15.9
1.75V/cell	255	202	157	104	76.6	52.4	37.3	30.8	16.3
1.70V/cell	270	214	165	107	78.3	53.6	37.8	31.2	16.5
1.65V/cell	285	226	172	110	79.7	54.5	38.4	31.5	16.7
1.60V/cell	301	233	179	112	80.4	55.0	38.8	31.8	16.7

Constant Power D	ischarge Table ((25°C/77°F) Uni	t: W						
			1h						
1.85V/cell	404	327	260	180	138	95.9	68.8	57.1	30.4
1.80V/cell	439	353	282	190	144	98.7	70.9	58.5	31.2
1.75V/cell	462	371	294	197	147	101	72.2	59.7	31.8
1.70V/cell	482	388	307	202	149	103	72.8	60.2	32.2
1.65V/cell	499	404	317	207	151	104	73.7	60.6	32.3
1.60V/cell	518	410	328	208	152	105	74.2	61.0	32.4

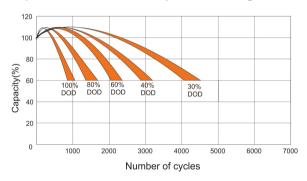
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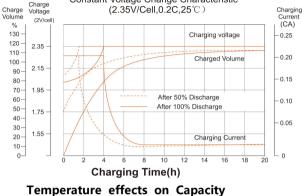
Discharge Characteristics Curve

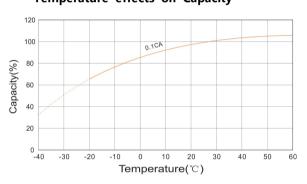


Cycle life in relation to depth of Discharge

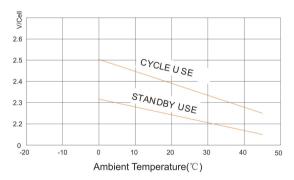


Charging Characteristics Curve Charge Constant Voltage Change Characteristic Voltage (2.35V/Cell,0.2C,25°C)

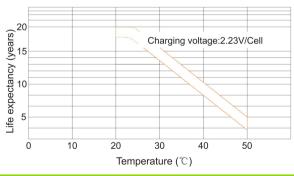




Relationship between charging voltage and temperature

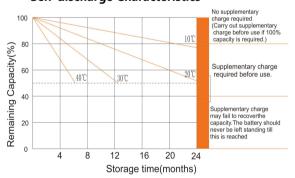




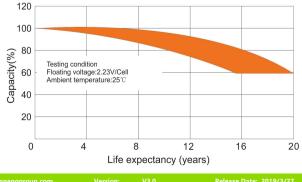




Self-discharge Characteristics







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