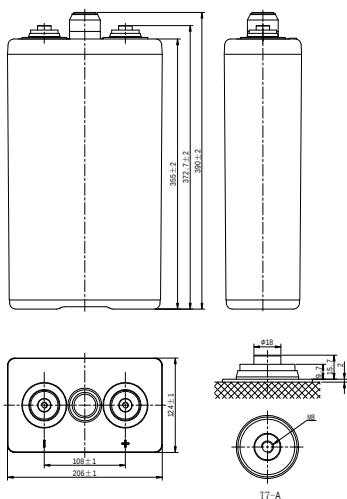


OPzV SERIES-TUBULAR GEL

5OPzV250 (2V250Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	250Ah
Dimension	Length	124mm (4.88inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	390mm (15.4inches)
Approx Weight	22.4kg (49.4lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2000A	
Internal Resistance (25°C)	Approx 0.8 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.40-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F)	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	111.7	75.6	59.7	40.9	28.6	25.3	11.7	6.11	4.39	3.33	2.87
1.80V/cell	125.3	82.8	66.3	46.2	32.2	28.0	12.4	6.52	4.69	3.51	3.03
1.75V/cell	130.2	85.6	67.7	47.1	32.7	28.4	12.5	6.67	4.81	3.59	3.08
1.70V/cell	135.9	87.8	69.1	47.8	33.2	28.8	12.7	6.80	4.85	3.63	3.12
1.67V/cell	139.5	89.2	70.4	48.6	33.5	29.0	12.9	6.87	4.89	3.69	3.16
1.60V/cell	141.6	90.7	71.2	49.0	33.8	29.2	13.0	6.96	4.92	3.74	3.20
Constant Power Discharge (Watts/cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	212.3	144.9	115.5	79.8	56.5	50.0	23.2	12.2	8.78	6.67	5.76
1.80V/cell	237.4	158.3	127.8	90.0	63.4	55.4	24.7	13.0	9.37	7.03	6.09
1.75V/cell	242.8	162.9	130.2	91.4	64.3	56.1	24.8	13.3	9.58	7.17	6.17
1.70V/cell	252.4	166.4	132.2	92.6	64.9	56.6	25.2	13.5	9.65	7.24	6.24
1.67V/cell	258.4	168.6	134.4	93.9	65.4	56.9	25.4	13.6	9.73	7.36	6.32
1.60V/cell	258.8	170.5	135.4	94.3	65.8	57.2	25.6	13.7	9.77	7.44	6.36

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5OPzV250 (2V250Ah)



APPLICATIONS

- Float charging applications: communication center, telecom basestation, UPS, power station, electric substation
- Solar and wind energy storage system
- Off-grid and bad-grid hybrid sites

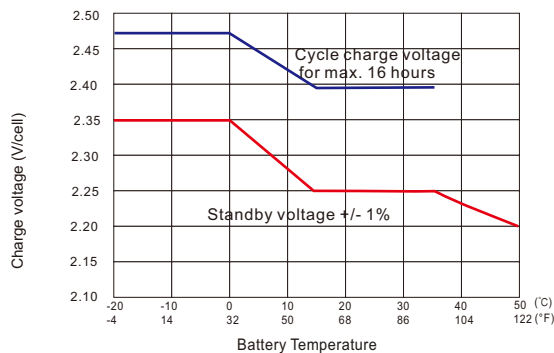
GENERAL FEATURES

- 20 year design life (20°C)
- Strong Lead-calcium alloy tubular plate technology - for longer life in the toughest conditions
- Gelled electrolyte for superior thermal management, long float life
- Proof against deep discharge - greater long-term energy delivery
- Exceptional cycling performance - 2500+ cycles at 60% Depth of Discharge

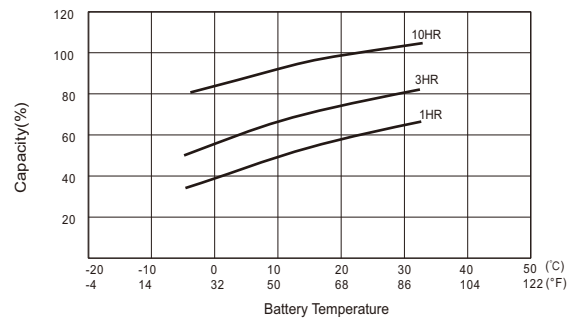
STANDARDS

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Approved
- Manufactured in DESA, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

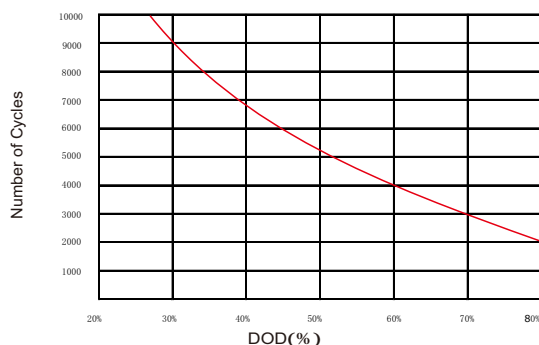
Charge Voltage vs Ambient Temperature Curve



Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics

