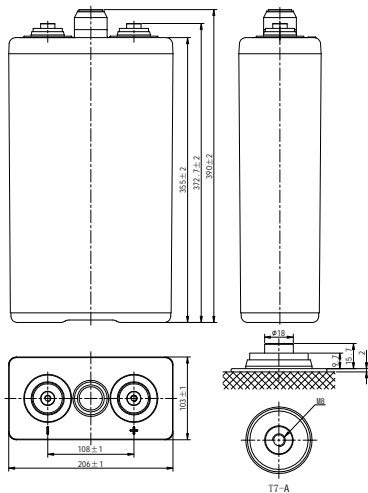


OPzV SERIES-TUBULAR GEL

4OPzV200 (2V200Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	200Ah
Dimension	Length	103mm (4.06inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	390mm (15.4inches)
Approx Weight	18.8kg (41.4lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1600A	
Internal Resistance (25°C)	Approx 1 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	
	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	89.4	60.4	46.4	31.9	22.2	18.7	8.90	4.65	3.35	2.54	2.19
1.80V/cell	100.2	66.2	50.5	34.4	23.8	20.0	9.21	4.83	3.47	2.60	2.25
1.75V/cell	104.2	68.5	51.6	35.1	24.2	20.3	9.27	4.94	3.56	2.65	2.28
1.70V/cell	108.7	70.2	52.6	35.6	24.5	20.5	9.42	5.04	3.60	2.69	2.31
1.67V/cell	111.6	71.4	53.6	36.2	24.8	20.8	9.50	5.09	3.63	2.74	2.34
1.60V/cell	113.3	72.5	54.2	36.5	25.0	20.9	9.58	5.15	3.65	2.77	2.37

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	172.5	117.4	90.5	62.3	44.1	37.3	17.8	9.32	6.72	5.10	4.40
1.80V/cell	193.0	128.4	98.0	66.9	47.1	39.7	18.4	9.66	6.96	5.22	4.52
1.75V/cell	199.3	131.2	99.7	68.1	47.8	40.3	18.5	9.87	7.13	5.32	4.59
1.70V/cell	206.1	134.1	101.4	69.2	48.3	40.7	18.8	10.1	7.20	5.39	4.64
1.67V/cell	210.1	136.4	103.1	69.8	48.8	41.0	18.9	10.1	7.25	5.48	4.70
1.60V/cell	212.4	137.6	103.7	70.3	49.0	41.3	19.0	10.2	7.29	5.53	4.74

OPzV SERIES-TUBULAR GEL

4OPzV200 (2V200Ah)



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

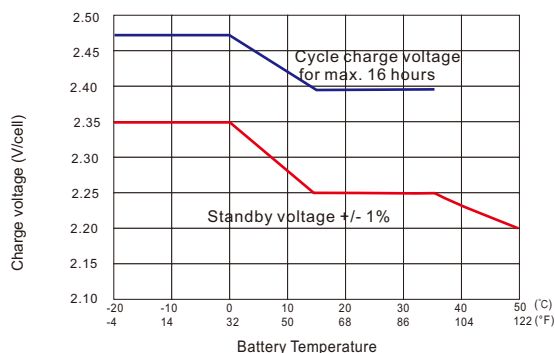
GENERAL FEATURES

- 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

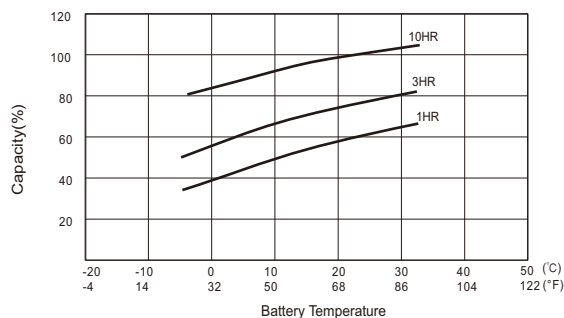
STANDARDS

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

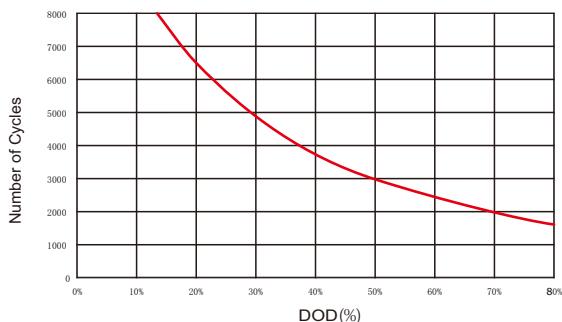
Charge Voltage vs Ambient Temperature Curve



Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics

