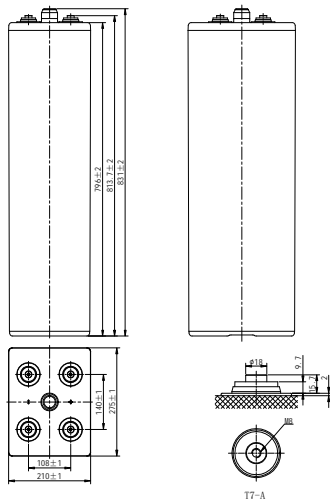


# OPzV SERIES-TUBULAR GEL

## 12OPzV1500 (2V1500Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	1500Ah
Dimension	Length	275mm (10.8inches)
	Width	210mm (8.27inches)
	Container Height	796mm (31.3inches)
	Total Height	831mm (32.7inches)
Approx Weight	115.0kg (253.5lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	7500A	
Internal Resistance (25°C)	Approx 0.38 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	
Effect of temp. to Capacity	40°C (104°F)	106%
	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	670.4	453.3	348.0	238.1	166.9	140.6	66.8	34.9	25.1	19.0	16.4
1.80V/cell	751.5	496.5	378.5	256.5	178.5	150.0	69.1	36.3	26.0	19.5	16.9
1.75V/cell	781.4	513.8	387.1	261.6	181.5	152.6	69.5	37.1	26.7	19.9	17.1
1.70V/cell	815.5	526.7	394.8	265.5	184.1	154.3	70.6	37.8	27.0	20.2	17.4
1.67V/cell	836.9	535.4	402.1	269.8	186.3	155.6	71.3	38.2	27.2	20.5	17.6
1.60V/cell	849.7	544.0	406.9	272.4	187.6	156.9	71.9	38.6	27.4	20.7	17.8

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	1293.8	880.7	678.8	467.5	330.7	279.4	133.4	69.9	50.4	38.2	33.0
1.80V/cell	1447.5	962.8	734.7	501.8	353.6	297.9	137.8	72.5	52.2	39.2	33.9
1.75V/cell	1494.5	984.4	747.5	510.4	358.7	302.1	138.6	74.0	53.5	39.9	34.4
1.70V/cell	1545.7	1006.0	760.4	519.0	362.6	305.1	140.7	75.4	54.0	40.4	34.8
1.67V/cell	1575.6	1023.2	773.3	523.3	366.1	307.7	141.8	76.1	54.3	41.1	35.2
1.60V/cell	1592.7	1031.9	777.6	527.6	367.8	309.4	142.8	76.8	54.6	41.5	35.6

# OPzV SERIES-TUBULAR GEL

## 12OPzV1500 (2V1500Ah)



### 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

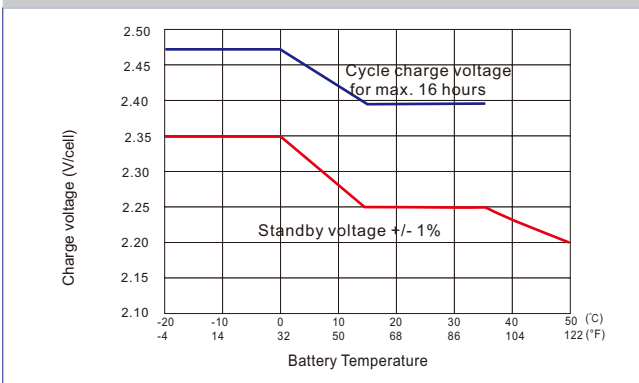
### GENERAL FEATURES

- 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

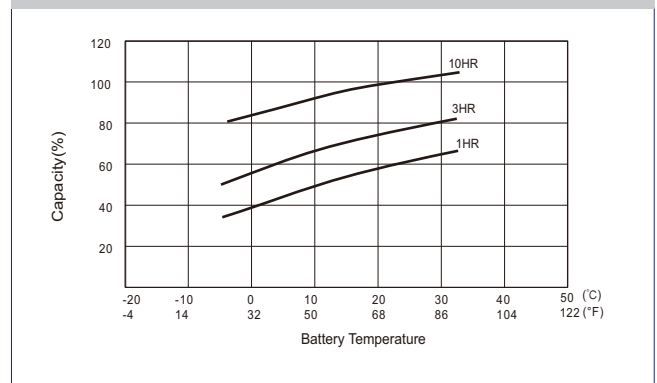
### STANDARDS

- 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

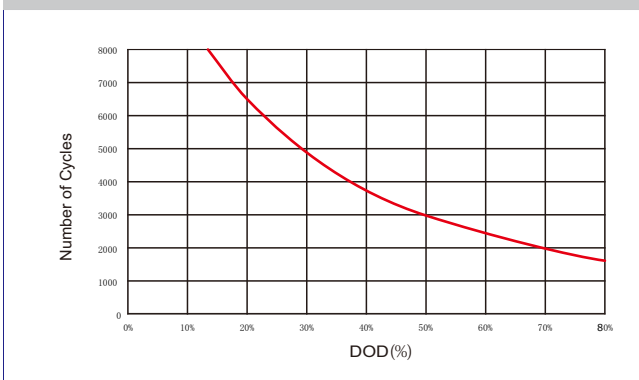
**Charge Voltage vs Ambient Temperature Curve**



**Temperature Effects in Relation to Capacity**



**Cycle life**



**Self Discharge Characteristics**

