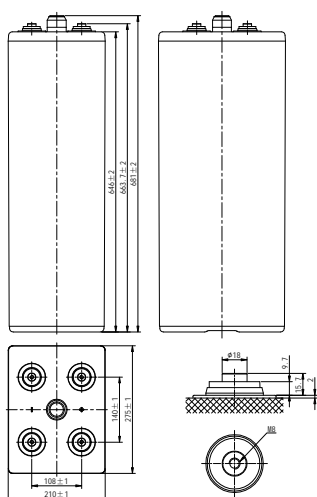


# OPzV SERIES-TUBULAR GEL

## 12OPzV1200 (2V1200Ah)



T7-A

### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	1200Ah
Dimension	Length	275mm (10.8inches)
	Width	210mm (8.27inches)
	Container Height	646mm (25.4inches)
	Total Height	681mm (26.8inches)
Approx Weight	93.0kg (205.0lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	7200A	
Internal Resistance (25°C)	Approx 0.43 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	536.3	362.7	278.4	190.4	133.5	112.5	53.4	27.9	20.1	15.2	13.1
1.80V/cell	601.2	397.2	302.8	205.2	142.8	120.0	55.3	29.0	20.8	15.6	13.5
1.75V/cell	625.1	411.0	309.7	209.3	145.2	122.1	55.6	29.7	21.4	15.9	13.7
1.70V/cell	652.4	421.4	315.9	212.4	147.3	123.4	56.5	30.2	21.6	16.1	13.9
1.67V/cell	669.5	428.3	321.7	215.8	149.0	124.5	57.0	30.5	21.8	16.4	14.1
1.60V/cell	679.8	435.2	325.5	217.9	150.0	125.5	57.5	30.9	21.9	16.6	14.2

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	1035.0	704.6	543.0	374.0	264.6	223.5	106.7	55.9	40.3	30.6	26.4
1.80V/cell	1158.0	770.2	587.7	401.5	282.8	238.3	110.3	58.0	41.8	31.3	27.1
1.75V/cell	1195.6	787.5	598.0	408.3	287.0	241.7	110.9	59.2	42.8	31.9	27.5
1.70V/cell	1236.6	804.8	608.3	415.2	290.1	244.1	112.5	60.3	43.2	32.3	27.9
1.67V/cell	1260.5	818.6	618.7	418.6	292.8	246.2	113.4	60.9	43.5	32.9	28.2
1.60V/cell	1274.1	825.5	622.1	422.1	294.2	247.5	114.3	61.5	43.7	33.2	28.5

# OPzV SERIES-TUBULAR GEL

## 12OPzV1200 (2V1200Ah)



### 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

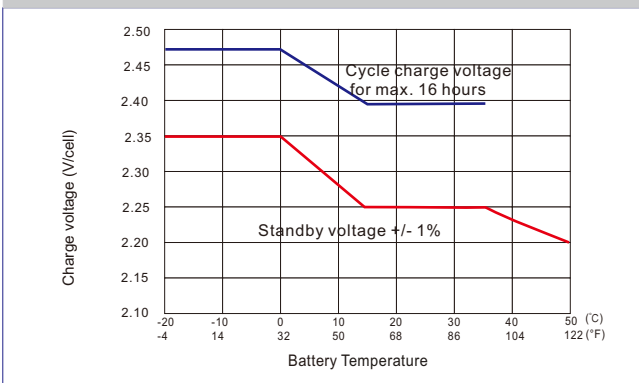
### GENERAL FEATURES

- 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

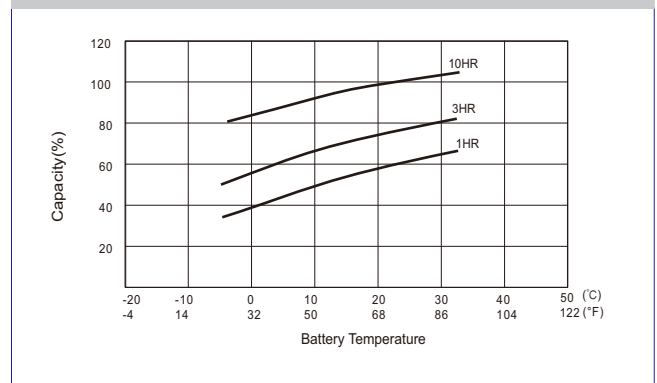
### STANDARDS

- 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

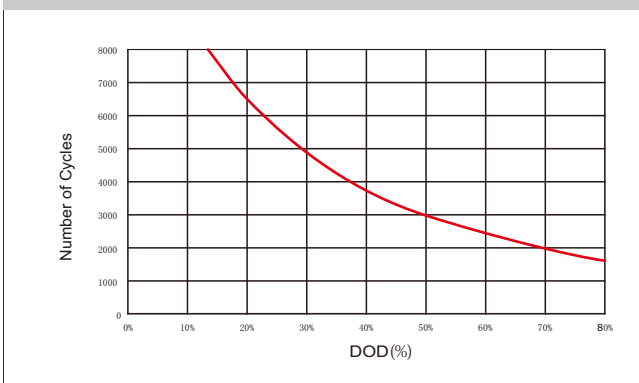
**Charge Voltage vs Ambient Temperature Curve**



**Temperature Effects in Relation to Capacity**



**Cycle life**



**Self Discharge Characteristics**

