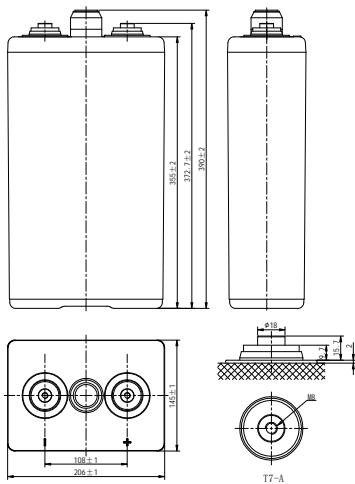


# OPzV SERIES-TUBULAR GEL

## 6OPzV300 (2V300Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	300Ah
Dimension	Length	145mm (5.71inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	390mm (15.4inches)
Approx Weight	26.4kg (58.2lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2400A	
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	
	-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	134.1	90.7	69.6	47.6	33.4	28.1	13.4	6.98	5.02	3.80	3.28
1.80V/cell	150.3	99.3	75.7	51.3	35.7	30.0	13.8	7.25	5.21	3.90	3.38
1.75V/cell	156.3	102.8	77.4	52.3	36.3	30.5	13.9	7.41	5.34	3.98	3.43
1.70V/cell	163.1	105.3	79.0	53.1	36.8	30.9	14.1	7.56	5.39	4.04	3.47
1.67V/cell	167.4	107.1	80.4	54.0	37.3	31.1	14.3	7.64	5.44	4.10	3.52
1.60V/cell	169.9	108.8	81.4	54.5	37.5	31.4	14.4	7.72	5.48	4.15	3.56
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	258.8	176.1	135.8	93.5	66.1	55.9	26.7	14.0	10.1	7.65	6.61
1.80V/cell	289.5	192.6	146.9	100.4	70.7	59.6	27.6	14.5	10.4	7.83	6.79
1.75V/cell	298.9	196.9	149.5	102.1	71.7	60.4	27.7	14.8	10.7	7.98	6.88
1.70V/cell	309.1	201.2	152.1	103.8	72.5	61.0	28.1	15.1	10.8	8.09	6.97
1.67V/cell	315.1	204.6	154.7	104.7	73.2	61.5	28.4	15.2	10.9	8.22	7.05
1.60V/cell	318.5	206.4	155.5	105.5	73.6	61.9	28.6	15.4	10.9	8.29	7.12

# OPzV SERIES-TUBULAR GEL

## 6OPzV300 (2V300Ah)



### 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

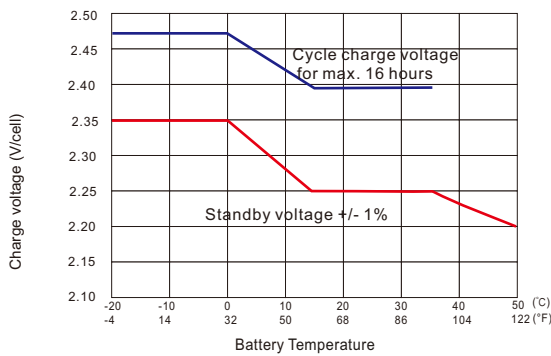
### GENERAL FEATURES

- 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

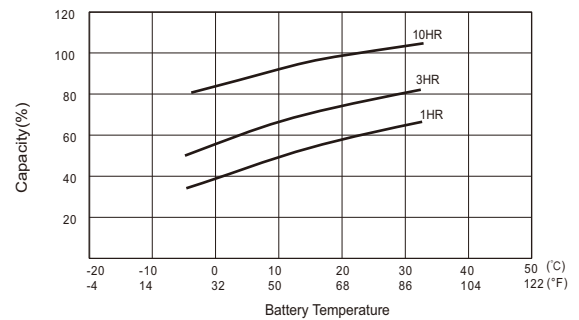
### STANDARDS

- 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

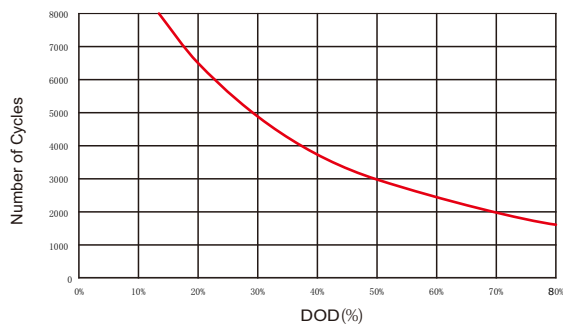
**Charge Voltage vs Ambient Temperature Curve**



**Temperature Effects in Relation to Capacity**



**Cycle life**



**Self Discharge Characteristics**

