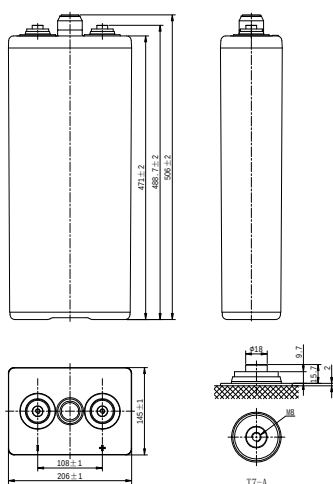


OPzV SERIES-TUBULAR GEL

6OPzV420 (2V420Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	420Ah
Dimension	Length	145mm (5.71inches)
	Width	206mm (8.11inches)
	Container Height	471mm (18.5inches)
	Total Height	506mm (19.9inches)
Approx Weight	34.5kg (76.1lbs)	
Terminal	T7-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3150A	
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	187.7	126.9	97.4	66.7	46.7	39.4	18.7	9.77	7.03	5.33	4.59
1.80V/cell	210.4	139.0	106.0	71.8	50.0	42.0	19.3	10.2	7.29	5.46	4.73
1.75V/cell	218.8	143.9	108.4	73.3	50.8	42.7	19.5	10.4	7.48	5.57	4.80
1.70V/cell	228.4	147.5	110.6	74.3	51.5	43.2	19.8	10.6	7.55	5.65	4.86
1.67V/cell	234.3	149.9	112.6	75.5	52.2	43.6	20.0	10.7	7.61	5.75	4.92
1.60V/cell	237.9	152.3	113.9	76.3	52.5	43.9	20.1	10.8	7.67	5.81	4.98
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	362.3	246.6	190.1	130.9	92.6	78.2	37.4	19.6	14.1	10.7	9.25
1.80V/cell	405.3	269.6	205.7	140.5	99.0	83.4	38.6	20.3	14.6	11.0	9.50
1.75V/cell	418.4	275.6	209.3	142.9	100.4	84.6	38.8	20.7	15.0	11.2	9.63
1.70V/cell	432.8	281.7	212.9	145.3	101.5	85.4	39.4	21.1	15.1	11.3	9.75
1.67V/cell	441.2	286.5	216.5	146.5	102.5	86.2	39.7	21.3	15.2	11.5	9.87
1.60V/cell	445.9	288.9	217.7	147.7	103.0	86.6	40.0	21.5	15.3	11.6	9.96

OPzV SERIES-TUBULAR GEL

6OPzV420 (2V420Ah)



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

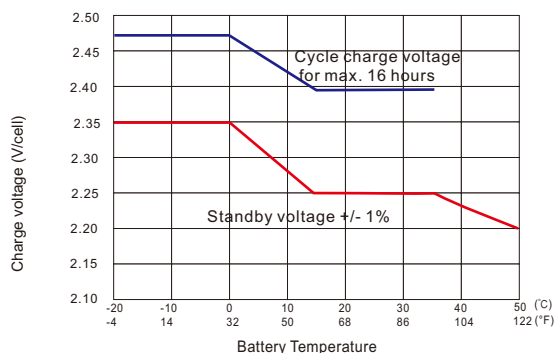
GENERAL FEATURES

- 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

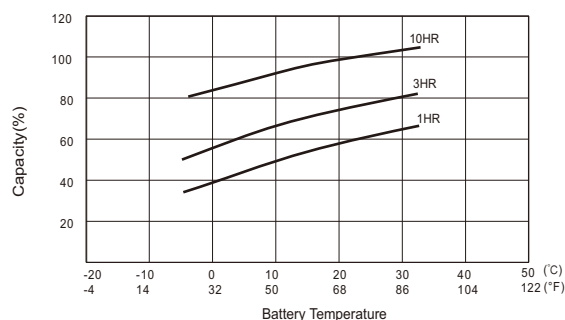
STANDARDS

- 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

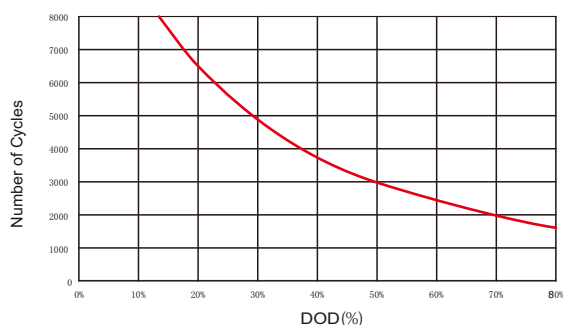
Charge Voltage vs Ambient Temperature Curve



Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics

