



# OPzV Series-Tubular Gel

## 16 OPzV2000(2V2000Ah)

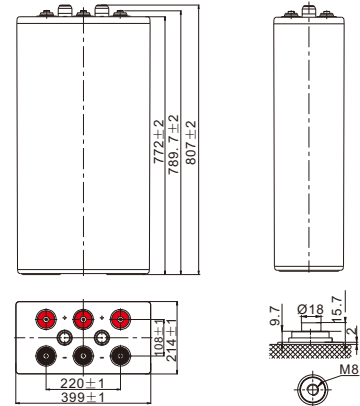


### Specifications

Rated Voltage	2V	
Nominal Capacity	2000Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	399mm(15.71 in.)
	Width	214mm(8.42 in.)
	Container Height	772mm(30.39 in.)
	Total Height	807mm(31.77 in.)
Approx Weight	155.0Kg (341.72 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	2000.0 Ah	(10hr,200.0A, 1.80V/cell)
	1735.0 Ah	(5hr,347.0A, 1.75V/cell)
	1530.0 Ah	(3hr,510.0A, 1.75V/cell)
	1112.0 Ah	(1hr,1112.0A, 1.65V/cell)
Max. Discharge Current (5s)	16000A	
Internal Resistance(25°C)	Approx.0.31mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	500.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	2.35~2.40V
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	



### Layout



### Constant Current Discharge (Amperes) at 25 °C (77 °F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	1167.0	1139.0	1041.0	888.0	581.0	460.0	315.0	220.0	187.0	98.2
1.80V/cell	1436.0	1379.0	1214.0	1000.0	638.0	502.0	342.0	238.0	200.0	105.0
1.75V/cell	1698.0	1543.0	1293.0	1041.0	656.0	510.0	347.0	241.0	203.0	106.6
1.70V/cell	1906.0	1684.0	1369.0	1081.0	673.0	520.0	353.0	243.0	205.0	107.6
1.65V/cell	2047.0	1778.0	1424.0	1112.0	687.0	526.0	356.0	245.0	208.0	109.2
1.60V/cell	2142.0	1841.0	1460.0	1131.0	696.0	530.0	360.0	247.0	209.0	109.7

### Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	2171.0	2140.0	1990.0	1718.0	1129.0	897.6	619.9	436.0	373.0	195.8
1.80V/cell	2624.0	2554.0	2296.0	1922.0	1234.0	976.4	669.8	469.9	397.0	208.4
1.75V/cell	3051.0	2819.0	2422.0	1987.0	1262.0	988.5	677.8	476.9	403.0	211.6
1.70V/cell	3363.0	3032.0	2538.0	2051.0	1288.0	1002.5	685.7	479.9	407.0	213.7
1.65V/cell	3547.0	3154.0	2613.0	2095.0	1309.0	1009.7	689.8	481.9	410.0	215.3
1.60V/cell	3640.0	3218.0	2653.0	2118.0	1319.0	1013.8	696.7	484.9	413.0	216.8



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### Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

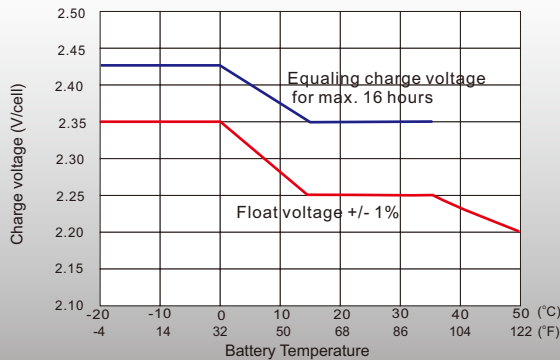
### General Features

- 20 years design life (20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built in copper core based in lead will carry large current
- Separator imported from AMER-SIL high porosity, PVC-SiO<sub>2</sub> and low resistance
- Pasted negative plate special grid design increase the active material, availability large current discharge and charge ability
- Tubular type positive plate (polyester tube) prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life

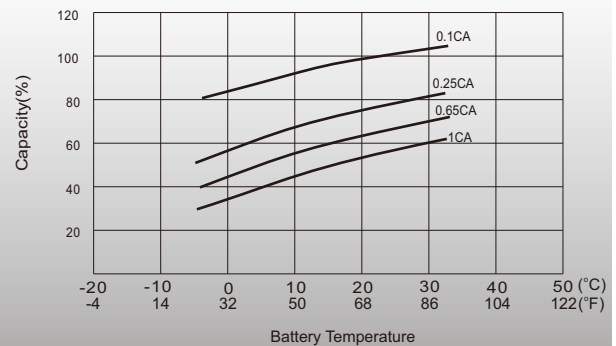
### Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

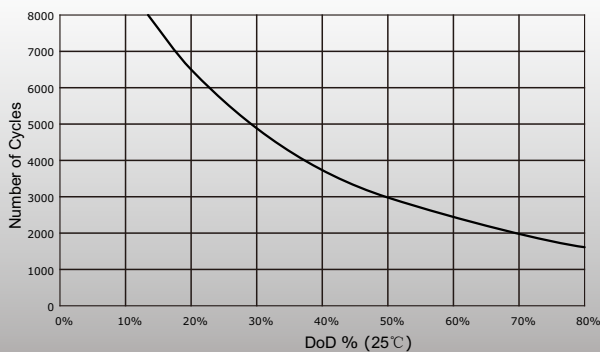
### Charge voltage vs ambient temperature curve



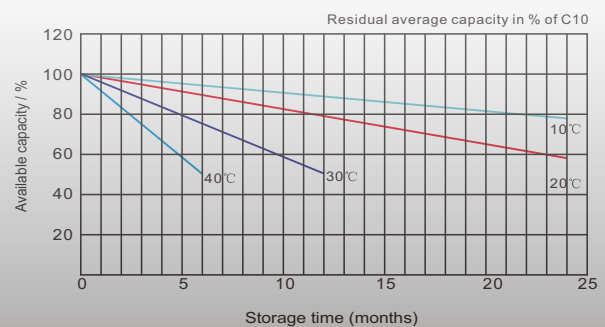
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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