

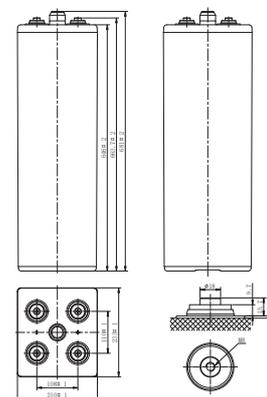
OPzV 1000(2V1000Ah)

Specifications

Rated Voltage	2V	
Nominal Capacity	1000Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	233mm(9.17 in.)
	Width	210mm(8.27 in.)
	Container Height	646mm(25.43 in.)
	Total Height	681mm(26.81 in.)
Approx Weight	78.5Kg (173.06 lbs)	
Terminal	F15	
Container Material	ABS/ABS V0(Optional)	
Rated Capacity (25°C)	1300.0 Ah	(100hr, 13.0A, 1.80V/cell)
	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	872.0 Ah	(5hr, 174.4A, 1.75V/cell)
	774.3 Ah	(3hr, 258.1A, 1.75V/cell)
	557.9Ah	(1hr, 557.9A, 1.67V/cell)
Short Circuit Current	6000A	
Internal Resistance(25°C)	Approx.0.45mΩ	
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)	250.0A	
Charge voltage(25°C)	Standby	2.23-2.27V/cell
	Temp. Coefficient	-3mV/cell/°C
	Cycle	2.40~2.45V
	Temp. Coefficient	-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	
Designed floating service life	20 years at 25°C	



Layout



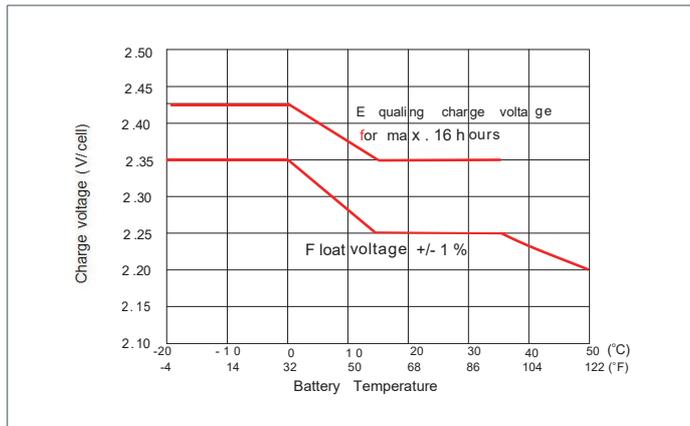
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	446.9	302.2	232.0	158.7	111.2	93.7	44.5	23.3	16.7	12.7	10.9
1.80V/cell	501.0	331.0	252.3	171.0	119.0	100.0	46.0	24.2	17.4	13.0	11.3
1.75V/cell	520.9	342.5	258.1	174.4	121.0	101.7	46.3	24.7	17.8	13.3	11.4
1.70V/cell	543.7	351.1	263.2	177.0	122.7	102.9	47.1	25.2	18.0	13.5	11.6
1.67V/cell	557.9	356.9	268.1	179.9	124.2	103.7	47.5	25.5	18.1	13.7	11.7
1.60V/cell	566.5	362.7	271.2	181.6	125.0	104.6	47.9	25.7	18.3	13.8	11.9

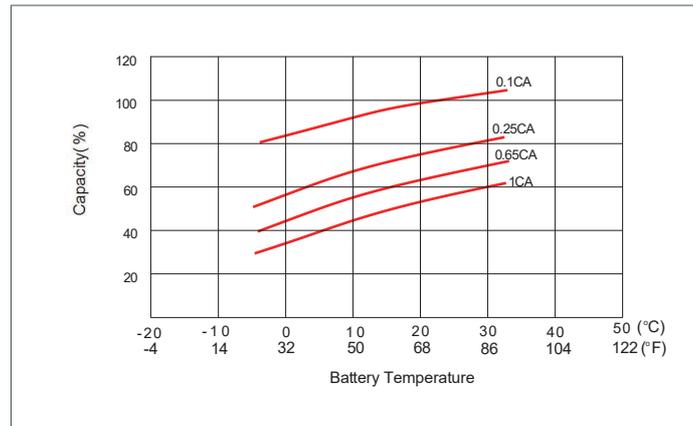
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	862.5	587.2	452.5	311.7	220.5	186.3	89.0	46.6	33.6	25.5	22.0
1.80V/cell	965.0	641.9	489.8	334.6	235.7	198.6	91.9	48.3	34.8	26.1	22.6
1.75V/cell	996.3	656.2	498.4	340.3	239.1	201.4	92.4	49.4	35.7	26.6	22.9
1.70V/cell	1030.5	670.6	507.0	346.0	241.7	203.4	93.8	50.3	36.0	27.0	23.2
1.67V/cell	1050.4	682.1	515.6	348.9	244.0	205.1	94.5	50.7	36.2	27.4	23.5
1.60V/cell	1061.8	687.9	518.4	351.7	245.2	206.3	95.2	51.2	36.4	27.6	23.7

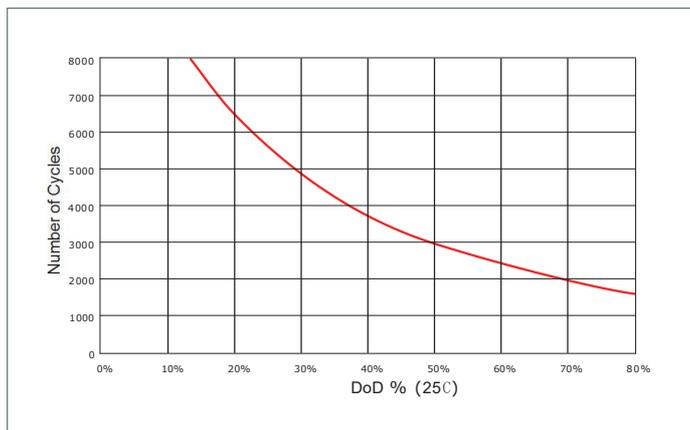
Charge voltage vs ambient temperature curve



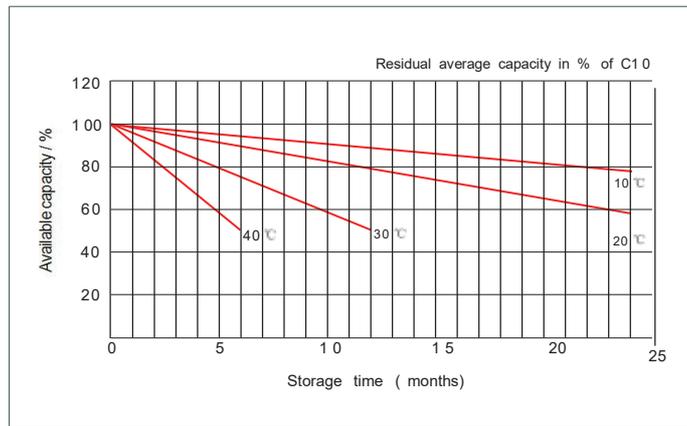
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



High purity lead raw material, low internal resistance, low self discharge, purity above 99.995%.



Multi element alloy grid with high corrosion resistance.



Ultra low internal resistance diaphragm (diaphragm), high oxygen recombination rate.



Gold acidity ratio, strong power, no acid leakage.



Excellent recovery ability after deep discharge.



Long life design, over discharge resistance.