OPG2-1000 (OPzV 2V1000AH)

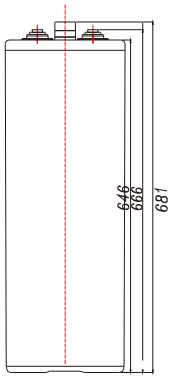
SunStone OPG series is a Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance.The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patent formula of active material.SunStone OPG series exceeds DIN standard values with more than 25 years floating design life at 25℃ and is even more suitable for cyclic use under extreme operating conditions.

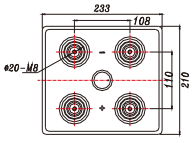
Specification

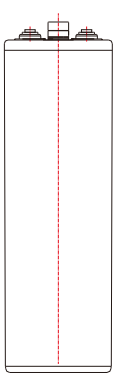
Voltage Per Unit	2V(single cell)
Capacity	1000Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 80.0 Kg
Max. Discharge Current	3800 A (5 sec)
Internal Resistance	Approx. 0.27 mΩ
Operating Temperature Range	Discharge: -40°C~70 °C Charge: 0°C~50 °C Storage: -20°C~60 °C
Optimal Operating Temperature Range	25°C±5℃
Float charging Voltage	2.25 to 2.3 VDC/unit Average at 25°C
Maximum Charging Current Limit	200 A
Cycle Service	2.37 to 2.40 VDC/unit Average at 25°C
Self Discharge	Self-discharge ratio less than 2% per month at 25°C. Please charge batteries before using.
Terminal	Thread insert & Bolt (F10-M8)
Container Material	A.B.S. (UL94-HB), and UL94-V0 is optional

Dimensions

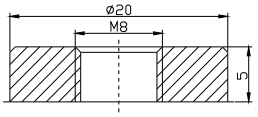
Dimension: 23(3L)×210(W)×681(H)





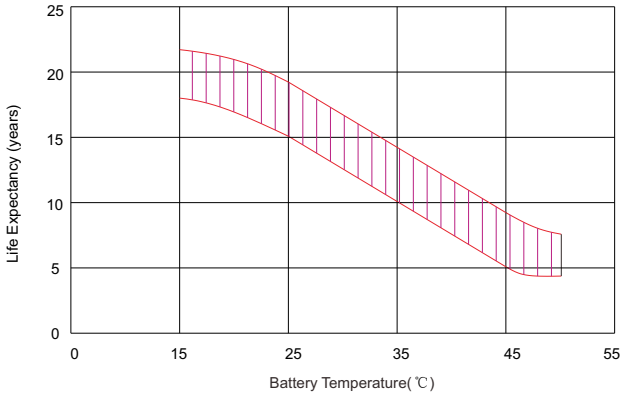


Terminal F10

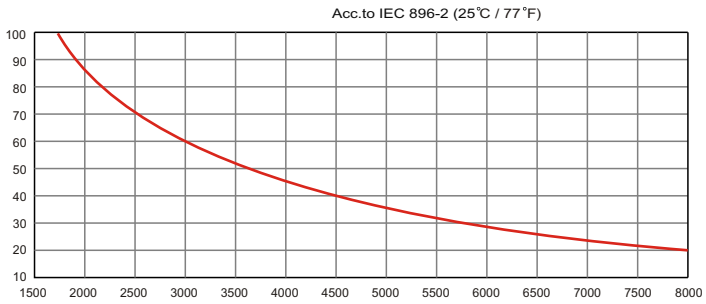


OPG2-1000 (OPzV 2V1000AH)

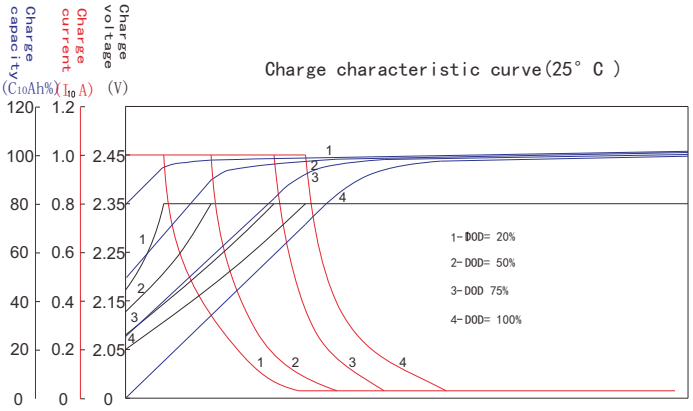
Effect of temperature on long term



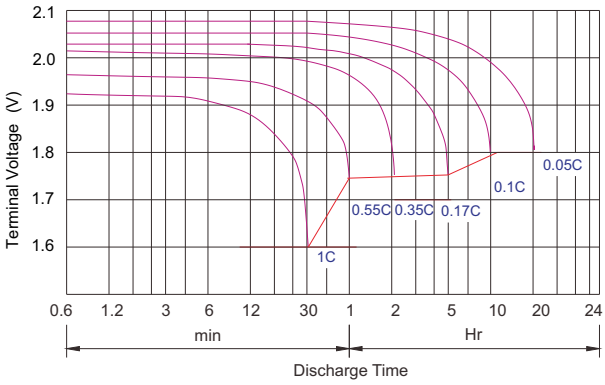
Cycle Life in Relation to Depth of Discharge



Charge characteristic Curve for standby use



Discharge characteristic Curve



Constant Current Discharge (Amperes at 25℃/77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h	120h
1.90V/cell	492.0	390.0	275.0	208.6	171.0	147.8	133.0	103.8	89.00	47.00	10.68	9.27
1.87V/cell	550.0	430.0	295.0	221.2	180.5	155.4	141.0	108.6	93.00	49.00	11.16	9.69
1.83V/cell	630.0	480.0	320.0	325.7	190.0	162.2	146.0	113.5	97.00	51.00	11.64	10.10
1.80V/cell	700.0	520.0	332.0	242.5	193.8	166.0	150.0	116.4	100.0	53.00	12.00	10.42
1.75V/cell	780.0	557.0	347.0	252.2	197.0	170.0	153.0	118.3	102.0	54.00	12.24	10.63
1.70V/cell	860.0	575.0	357.0	257.1	200.5	172.0	155.0	119.3	103.0	54.00	12.36	10.73
1.65V/cell	887.0	611.0	369.0	264.0	203.3	174.0	157.0	120.3	104.0	55.00	12.48	10.83
1.60V/cell	925.0	632.0	383.0	275.0	209.0	177.0	159.0	121.3	105.0	55.00	12.60	10.94

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

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h	120h
1.90V/cell	941.7	748.7	531.6	404.0	334.7	291.0	263.0	207.6	181.4	95.00	217.68	226.75
1.87V/cell	1036	813.0	563.8	423.1	352.8	305.0	278.0	216.3	189.2	99.00	227.04	236.50
1.83V/cell	1161	886.4	600.0	445.2	369.8	317.0	287.0	224.1	195.9	103.0	235.08	244.88
1.80V/cell	1268	945.7	620.0	455.3	376.9	324.0	294.0	228.9	200.8	105.0	240.96	251.00
1.75V/cell	1376	987.9	640.2	469.3	381.9	322.0	299.0	231.8	203.7	107.0	244.44	254.63
1.70V/cell	1475	998.0	656.3	477.4	387.9	335.0	302.0	233.8	205.6	108.0	246.72	257.00
1.65V/cell	1500	1042	674.4	487.4	393.0	338.0	305.0	235.7	206.6	108.0	247.92	258.25
1.60V/cell	1519	1074	690.4	501.0	403.0	341.0	307.0	236.7	207.6	109.0	249.12	259.50

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.