



OPzV Series-Tubular Gel

HG10 OPzV1000(2V1000Ah)

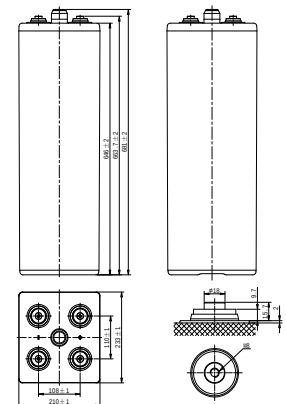


Specifications

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	M8	
Container Material	ABS/ABS V0(Optional)	
Rated Capacity (25°C)	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	952.0Ah	(8hr, 119.0A, 1.75V/cell)
	777.2 Ah	(3hr, 259.1A, 1.70V/cell)
	502.0Ah	(1hr, 502.0A, 1.60V/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	



Layout



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

F.V/Time	1h	3h	5h	8h	10h	24h
1.85V/cell	358.0	213.3	147.3	104.0	93.7	44.5
1.80V/cell	401.3	232.0	158.7	111.2	100.0	46.0
1.75V/cell	417.3	252.3	171.0	119.0	101.7	46.3
1.70V/cell	435.5	259.1	174.4	121.0	102.9	47.1
1.67V/cell	446.9	263.2	177.0	122.7	103.7	47.5
1.60V/cell	502.0	268.1	179.9	124.2	104.6	47.9

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

F.V/Time	1h	3h	5h	8h	10h	24h
1.85V/cell	708.2	418.1	290.4	206.2	186.3	89.0
1.80V/cell	792.4	452.5	311.7	220.5	198.6	91.9
1.75V/cell	818.1	489.8	334.6	235.7	201.4	92.4
1.70V/cell	846.2	498.4	340.3	239.1	203.4	93.8
1.67V/cell	862.5	507.0	346.0	241.7	205.1	94.5
1.60V/cell	965.0	515.6	348.9	244.0	206.3	95.2



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Applications

- Float charging applications: communication center, telecom base station, UPS, power station, electric substation
- Solar & wind energy storage system
- Off-grid & bad-grid hybrid sites

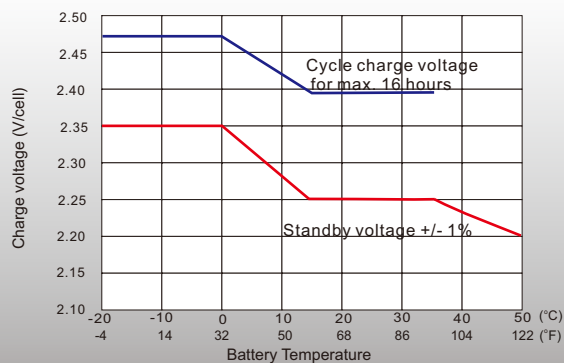
General Features

- 20 years design life (20°C)
- Wide working temperature range (-20~55)°C
- Using fumed silica colloidal electrolyte, which has no stratification, and provide longer cycle and float charge life
- Tubular type positive plate prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life
- Pasted negative plate special grid design increase the active material availability large current discharge and charge ability
- Excellent recovery ability from under-charge and over-discharge

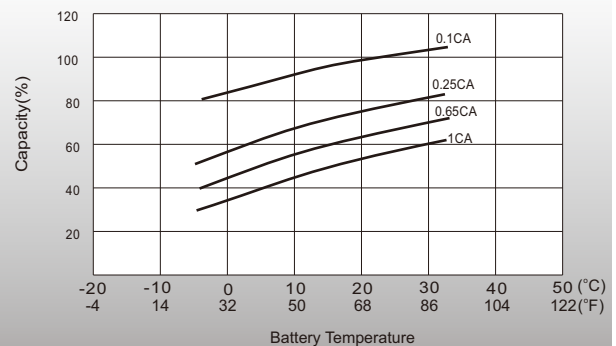
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- We acquired the recognition of various standards: ISO45001/OHSAS18001, ISO9001, ISO14001 and IATF16949

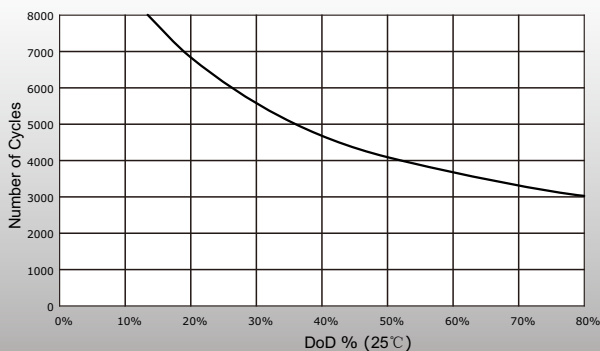
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life



General Relation of Capacity VS. Storage Time

