OPzV Series-Tubular Gel

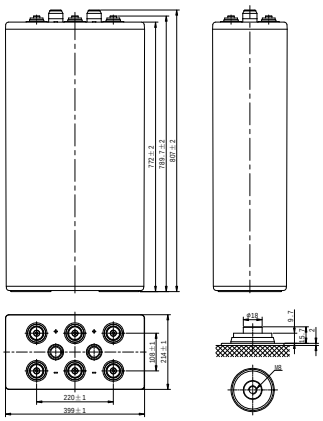
HG16 OPzV2000(2V2000Ah)

HYGEN ENERGY

Specifications

Rated Voltage		2V
Nominal Capacity	2000Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	399mm(15.71 in.) 214mm(8.42 in.) 772mm(30.39 in.) 807mm(31.77 in.)
Approx Weight		155.0Kg (341.72 lbs)
Terminal		M8
Container Material		ABS/ABS V0(Optional)
Rated Capacity (25°C)	2000.0 Ah 1896.0Ah 1539.4 Ah 1005 .0 Ah	(10hr,200.0A,1.80V/cell) (8hr,237.0A,1.75V/cell) (3hr,513.1A,1.70V/cell) (1hr,1005 .0A,1.60V/cell)
Short Circuit Current		10000A
Internal Resistance(25℃)		Approx.0.31mΩ
Operating Temp.Range	Discharge Charge Storage	-20°C~55°C (-4°F~131°F) 0°C~40°C (32°F~104°F) -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)	Standby Temp. Coefficient Cycle Temp. Coefficient	2.23-2.27V/cell -3mV/cell/°C 2.40~2.45V -5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	106% 100% 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	716.0	426.6	294.6	208.0	187.4	89.0
1.80V/cell	802.6	464.0	317.4	222.5	200.0	92.1
1.75V/cell	834.5	504.7	342.0	237.0	203.4	92.7
1.70V/cell	871.0	513.1	348.9	242.0	205.7	94.2
1.67V/cell	893.8	526.4	354.0	245.5	207.4	95.0
1.60V/cell	1005.0	536.2	359.7	248.3	209.1	95.8

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

F.V/Time	1h	3h	5h	8h	10h	24h
1.85V/cell	1416.5	836.3	580.8	412.4	372.6	177.9
1.80V/cell	1584.8	905.1	623.4	440.9	397.1	183.8
1.75V/cell	1636.2	979.5	669.1	471.4	402.9	184.8
1.70V/cell	1692.3	996.7	680.6	478.3	406.9	187.6
1.67V/cell	1725.0	1013.9	692.0	483.5	410.3	189.1
1.60V/cell	1930.0	1031.1	697.7	488.1	412.6	190.4

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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

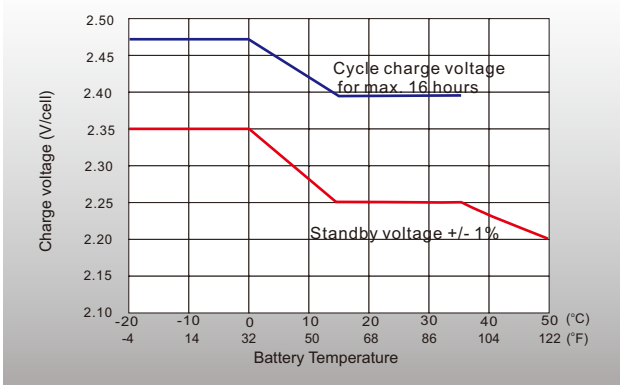
General Features

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

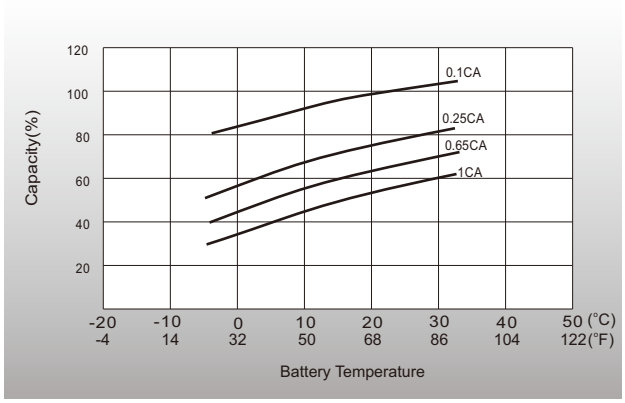
Standards

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

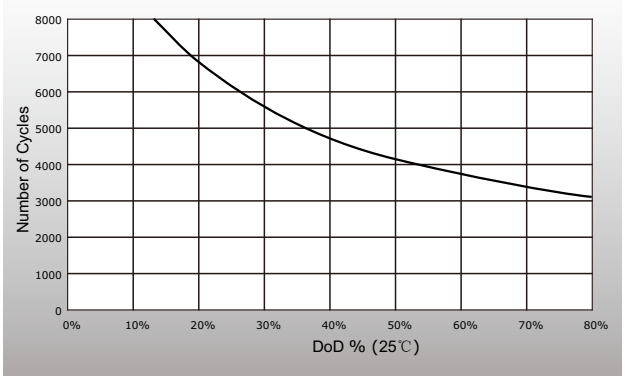
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life



General Relation of Capacity VS. Storage Time