OPzV Series-Tubular Gel

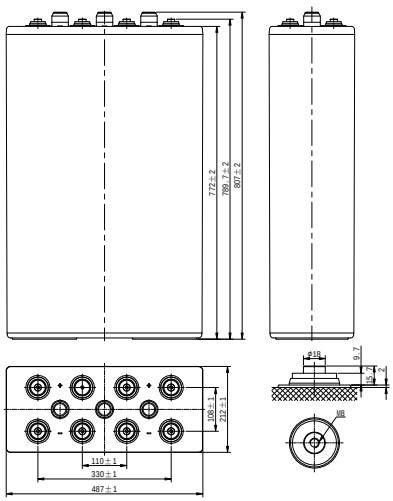
HG20 OPzV2500(2V2500Ah)

HYGEN ENERGY

Specifications

Rated Voltage		2V
Nominal Capacity	2500Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	487mm(19.17 in.) 212mm(8.34 in.) 772mm(30.39 in.) 807mm(31.77 in.)
Approx Weight		196.0Kg (432.11 lbs)
Terminal		M8
Container Material		ABS/ABS V0(Optional)
Rated Capacity (25°C)	2500.0 Ah 2376.0 Ah 1923.5Ah 1255.2 Ah	(10hr,250.0A,1.80V/cell) (8hr,297.0A,1.75V/cell) (3hr,641.2A,1.70V/cell) (1hr,1255.2A,1.60V/cell)
Short Circuit Current		12500A
Internal Resistance(25℃)		Approx.0.25mΩ
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)		625.0A
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	895.0	533.3	368.2	260.0	234.3	111.3
1.80V/cell	1003.3	580.0	396.8	278.1	250.0	115.1
1.75V/cell	1043.2	630.8	427.5	297.0	254.3	115.8
1.70V/cell	1088.8	641.2	436.1	302.5	257.1	117.7
1.67V/cell	1117.3	658.0	442.5	306.8	259.3	118.8
1.60V/cell	1255.2	670.2	449.7	310.4	261.4	119.8

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

F.V/Time	1h	3h	5h	8h	10h	24h
1.85V/cell	1770.6	1045.3	725.9	515.5	465.7	222.4
1.80V/cell	1981.0	1131.3	779.2	551.2	496.4	229.7
1.75V/cell	2045.3	1224.4	836.4	589.3	503.6	231.0
1.70V/cell	2115.4	1245.9	850.7	597.9	508.6	234.5
1.67V/cell	2156.3	1267.4	865.0	604.3	512.9	236.3
1.60V/cell	2412.5	1288.9	872.2	610.1	515.7	238.0

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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

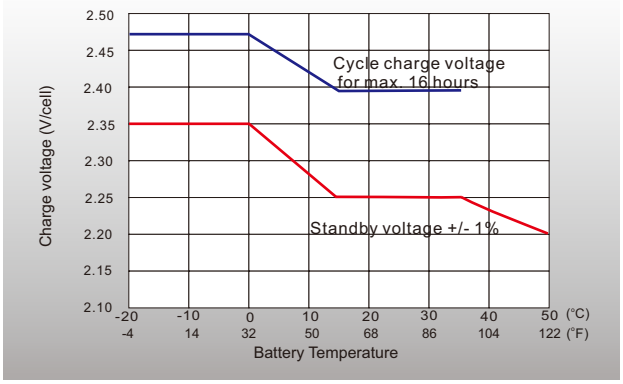
General Features

- 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

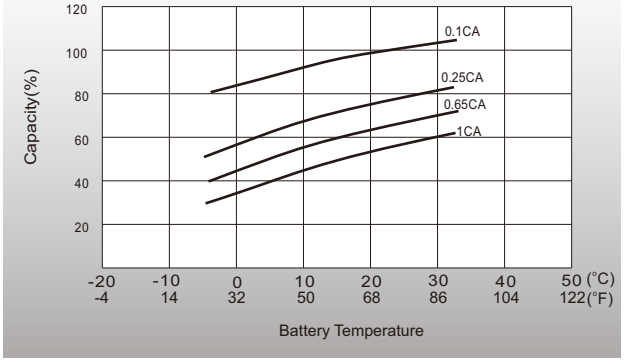
Standards

- 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

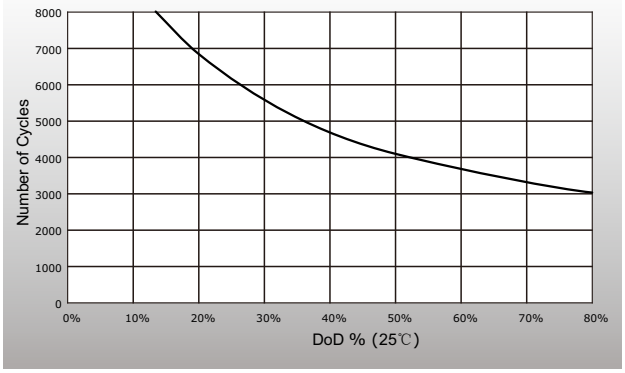
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life



General Relation of Capacity VS. Storage Time