



Solar Series-Tubular Gel 20 OPzV2500(2V3500Ah)

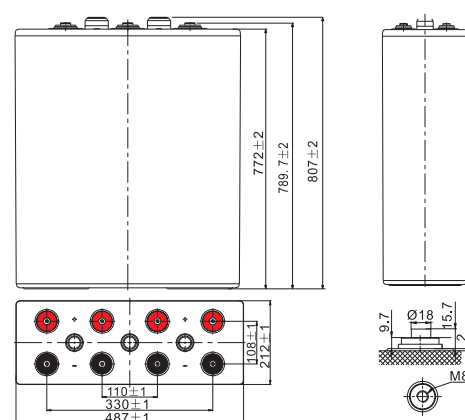


Specifications

Rated Voltage	2V	
Nominal Capacity	3500Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	487mm(19.17 in.)
	Width	212mm(8.34 in.)
	Container Height	772mm(30.39 in.)
	Total Height	807mm(31.77 in.)
Approx Weight	196.0Kg (432.11 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	3612.0 Ah	(120hr, 30.1A, 1.80V/cell)
	3500.0 Ah	(100hr, 35.0A, 1.80V/cell)
	3340.8 Ah	(72hr, 46.4A, 1.80V/cell)
	2800.0 Ah	(10hr, 280.0A, 1.80V/cell)
Max. Discharge Current (5s)	20000A	
Internal Resistance(25°C)	Approx.0.25mΩ	
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)	625.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	2.35~2.40V
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	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1130.5	762.3	593.3	408.5	305.8	262.1	116.3	62.2	44.8	34.0	29.2
1.80V/cell	1273.1	837.9	644.7	441.0	327.0	280.0	121.3	64.6	46.4	35.0	30.1
1.75V/cell	1366.1	861.0	659.4	449.4	332.6	284.5	123.9	66.1	47.6	35.5	30.5
1.70V/cell	1459.1	908.3	692.3	468.7	337.1	287.8	125.9	67.4	48.1	36.0	31.0
1.67V/cell	1501.2	927.7	705.2	476.3	340.5	290.1	127.1	68.1	48.5	36.6	31.4
1.60V/cell	1527.1	939.6	713.9	481.7	343.8	292.3	128.2	68.9	48.8	37.0	31.7

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	2186.8	1482.6	1157.1	803.3	604.8	521.9	232.4	124.6	89.9	68.4	58.9
1.80V/cell	2447.5	1620.2	1253.7	863.1	646.2	555.5	242.2	129.2	93.1	70.3	60.5
1.75V/cell	2608.2	1655.9	1276.8	876.8	656.3	564.5	247.1	132.0	95.4	71.2	61.4
1.70V/cell	2769.1	1738.8	1334.9	913.7	663.0	570.1	250.9	134.4	96.2	72.1	62.1
1.67V/cell	2828.5	1766.9	1353.2	923.4	669.8	574.6	252.9	135.7	96.9	73.3	62.9
1.60V/cell	2858.8	1780.9	1363.0	929.9	673.1	577.9	254.7	137.0	97.4	74.0	63.5



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Applications

- Green energy systems (solar, wind, hydro, etc)
- Telecommunications installations
- Solar power stations
- Alarm installations
- Railway crossing
- Street lighting
- Pump systems
- Signal station
- Street signs
- Traffic lights
- Lawn lamp

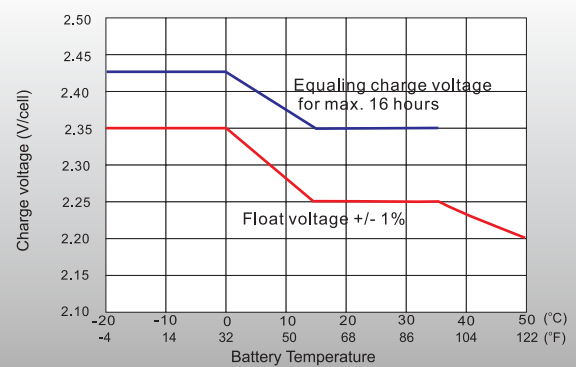
General Features

- 16-18 years design life(25°C)
- Better recovery performance
- Wide working temperature range (-20~55)°C
- No electrolyte stratification provides longer service life
- High recombination efficient
- Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity, PVC-SiO₂ and low resistance
- Pasted negative plate special grid design increase the active material.availability large current discharge and charge ability
- Tubuler type positive plate (polyester tube) prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life

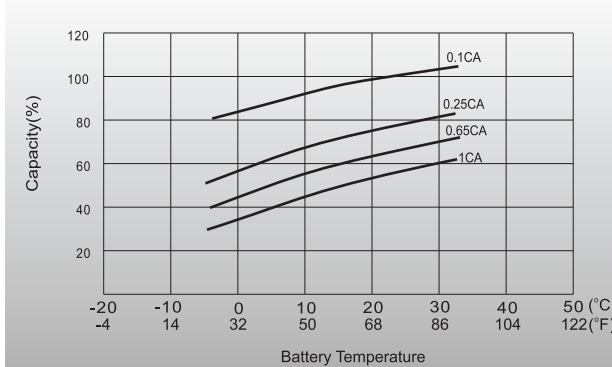
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch®TS16949, OHSAS 18001,ISO 9001 and ISO 14001certified production facilities

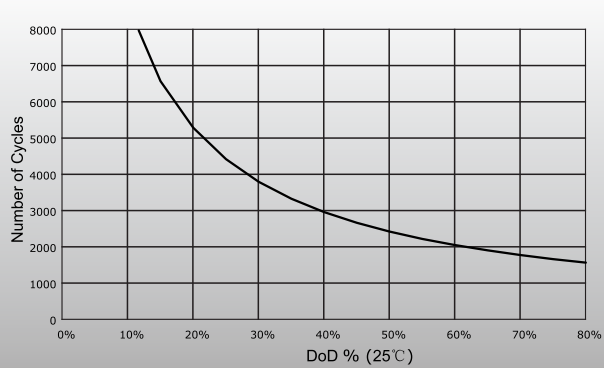
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Float Service Life

