



Solar Series-Tubular Gel

24 OPzV3000(2V3900Ah)

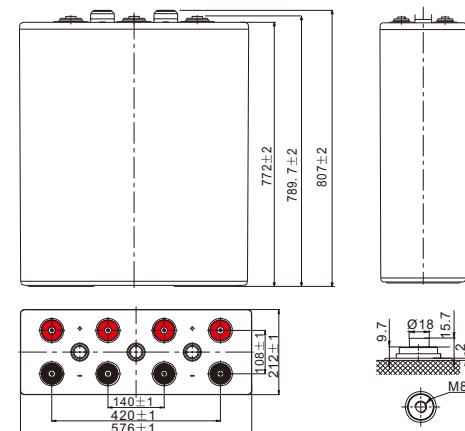


Specifications

Rated Voltage	2V	
Nominal Capacity	3900Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	576mm(22.68 in.)
	Width	212mm(8.34 in.)
	Container Height	772mm(30.39 in.)
	Total Height	807mm(31.77 in.)
Approx Weight	232.0Kg (511.47 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	4056.0 Ah	(120hr, 33.8A, 1.80V/cell)
	3900.0 Ah	(100hr, 39.0A, 1.80V/cell)
	3751.2 Ah	(72hr, 52.1A, 1.80V/cell)
	3000.0 Ah	(10hr, 300.0A, 1.80V/cell)
Max. Discharge Current (5s)	24000A	
Internal Resistance(25°C)	Approx.0.23mΩ	
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)	750.0A	
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	1340.7	906.7	696.0	476.1	333.7	281.1	133.5	69.8	50.2	38.0	32.8
1.80V/cell	1503.0	993.0	757.0	513.0	357.0	300.0	138.1	72.5	52.1	39.0	33.8
1.75V/cell	1562.8	1027.5	774.2	523.3	363.0	305.1	139.0	74.1	53.4	39.8	34.3
1.70V/cell	1631.1	1053.4	789.7	531.0	368.2	308.6	141.3	75.6	53.9	40.4	34.7
1.67V/cell	1673.8	1070.7	804.3	539.6	372.5	311.1	142.5	76.4	54.4	41.0	35.2
1.60V/cell	1699.4	1088.0	813.7	544.7	375.1	313.7	143.8	77.2	54.8	41.5	35.6

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	2587.6	1761.5	1357.6	935.1	661.4	558.9	266.9	139.7	100.8	76.5	66.1
1.80V/cell	2895.0	1925.6	1469.3	1003.7	707.1	595.7	275.7	144.9	104.4	78.3	67.9
1.75V/cell	2988.9	1968.7	1495.1	1020.9	717.4	604.3	277.2	148.1	107.0	79.8	68.8
1.70V/cell	3091.4	2011.9	1520.9	1038.0	725.2	610.3	281.4	150.8	107.9	80.9	69.7
1.67V/cell	3151.2	2046.4	1546.7	1046.6	732.1	615.4	283.6	152.2	108.7	82.2	70.5
1.60V/cell	3185.3	2063.7	1555.2	1055.2	735.6	618.9	285.6	153.7	109.3	82.9	71.2



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Applications

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

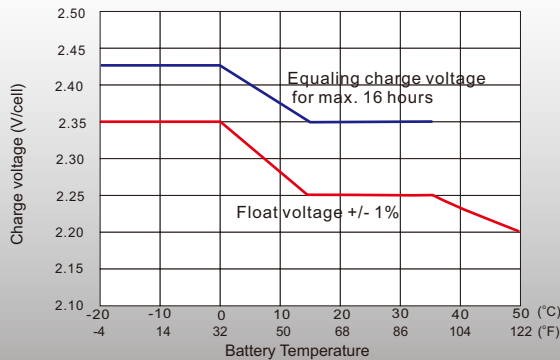
General Features

- 20 years design life(20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built 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. Muti metal alloy pressed positive grid increase the anti corrosion ability and service life

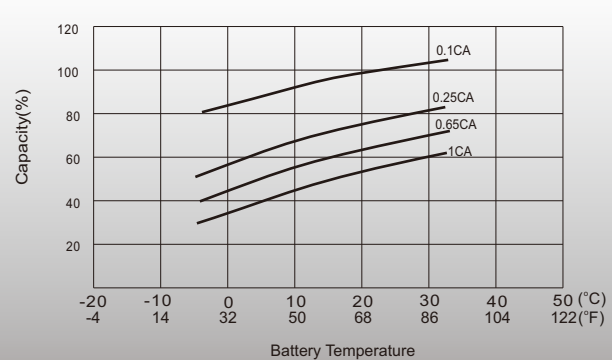
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

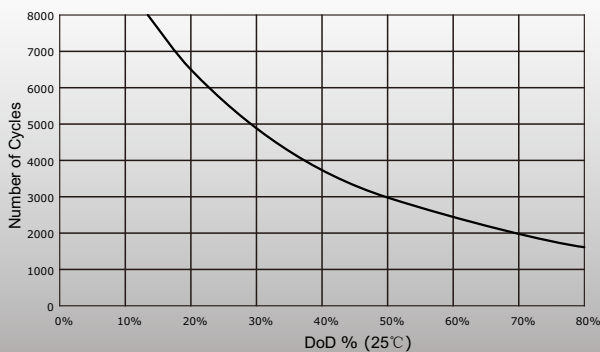
Charge voltage vs ambient temperature curve



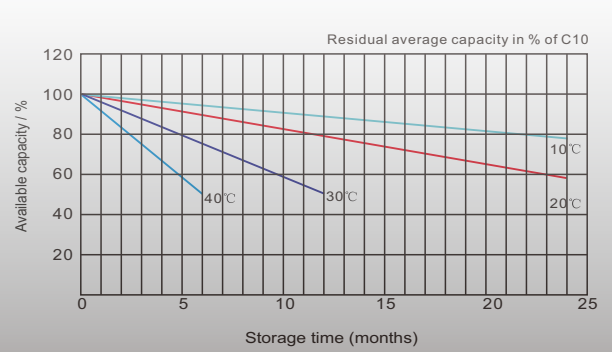
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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