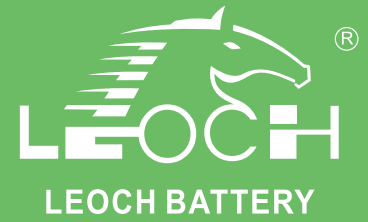




Solar Series-Tubular Gel

12 OPzV1500(2V1950Ah)

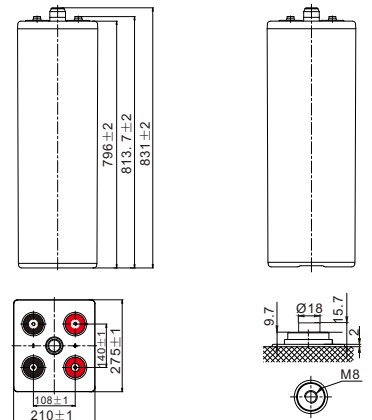


Specifications

Rated Voltage	2V	
Nominal Capacity	1950Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	275mm(10.83 in.)
	Width	210mm(8.27 in.)
	Container Height	796mm(31.34 in.)
	Total Height	831mm(32.72 in.)
Approx Weight	115.0Kg (253.53 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	2028.0 Ah	(120hr, 16.9A, 1.80V/cell)
	1950.0 Ah	(100hr, 19.5A, 1.80V/cell)
	1872.0 Ah	(72hr, 26.0A, 1.80V/cell)
	1560.0 Ah	(10hr, 150.0A, 1.80V/cell)
Max. Discharge Current (5s)	12000A	
Internal Resistance(25°C)	Approx.0.38mΩ	
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)	375.0A	
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	670.4	453.3	348.0	238.1	166.9	140.6	66.8	34.9	25.1	19.0	16.4
1.80V/cell	751.5	496.5	378.5	256.5	178.5	150.0	69.1	36.3	26.0	19.5	16.9
1.75V/cell	781.4	513.8	387.1	261.6	181.5	152.6	69.5	37.1	26.7	19.9	17.1
1.70V/cell	815.5	526.7	394.8	265.5	184.1	154.3	70.6	37.8	27.0	20.2	17.4
1.67V/cell	836.9	535.4	402.1	269.8	186.3	155.6	71.3	38.2	27.2	20.5	17.6
1.60V/cell	849.7	544.0	406.9	272.4	187.6	156.9	71.9	38.6	27.4	20.7	17.8

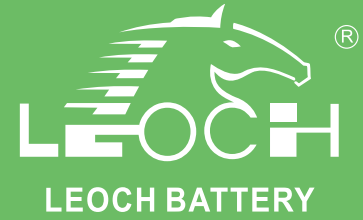
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1293.8	880.7	678.8	467.5	330.7	279.4	133.4	69.9	50.4	38.2	33.0
1.80V/cell	1447.5	962.8	734.7	501.8	353.6	297.9	137.8	72.5	52.2	39.2	33.9
1.75V/cell	1494.5	984.4	747.5	510.4	358.7	302.1	138.6	74.0	53.5	39.9	34.4
1.70V/cell	1545.7	1006.0	760.4	519.0	362.6	305.1	140.7	75.4	54.0	40.4	34.8
1.67V/cell	1575.6	1023.2	773.3	523.3	366.1	307.7	141.8	76.1	54.3	41.1	35.2
1.60V/cell	1592.7	1031.9	777.6	527.6	367.8	309.4	142.8	76.8	54.6	41.5	35.6



Solar Series-Tubular Gel

12 OPzV1500(2V1950Ah)



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

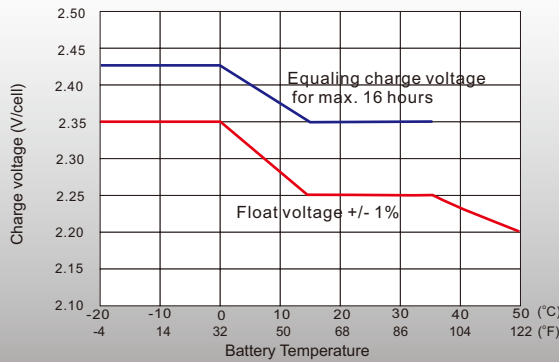
General Features

- 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

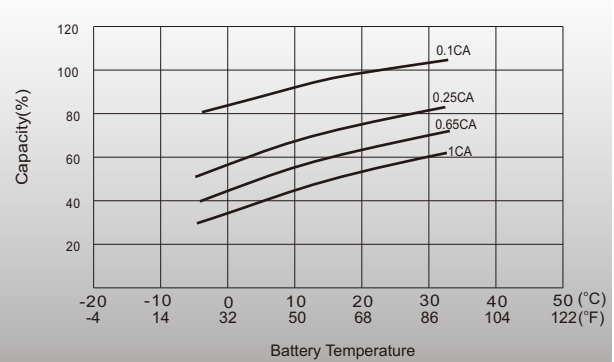
Standards

- 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

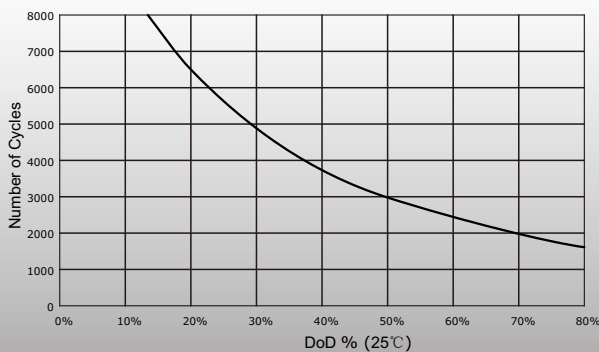
Charge voltage vs ambient temperature curve



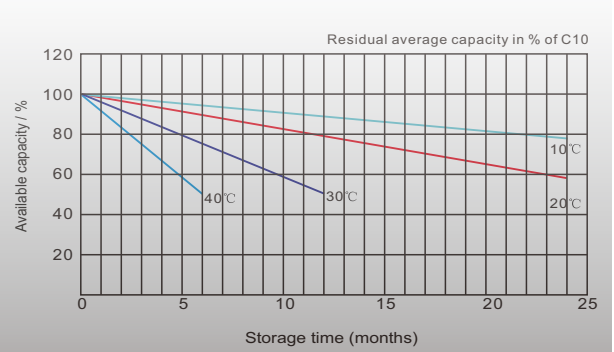
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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