



Solar Series-Tubular Gel 10 OPzV1000(2V1400Ah)

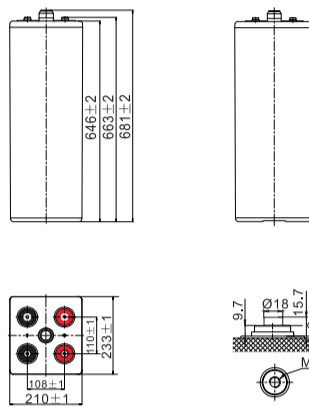


Specifications

Rated Voltage	2V	
Nominal Capacity	1400Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	233mm(9.17 in.)
	Width	210mm(8.27 in.)
	Container Height	646mm(25.43 in.)
	Total Height	681mm(26.81 in.)
Approx Weight	78.5Kg (173.06 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1440.0 Ah	(120hr, 12.0A, 1.80V/cell)
	1400.0 Ah	(100hr, 14.0A, 1.80V/cell)
	1339.2 Ah	(72hr, 18.6A, 1.80V/cell)
	1120.0 Ah	(10hr, 112.0A, 1.80V/cell)
Max. Discharge Current (5s)	8000A	
Internal Resistance(25°C)	Approx.0.46mΩ	
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)	250.0A	
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	453.3	309.8	239.4	164.9	123.2	104.9	46.5	24.9	17.9	13.6	11.7
1.80V/cell	511.3	340.2	261.5	177.5	132.2	112.0	48.5	25.9	18.6	14.0	12.0
1.75V/cell	548.1	349.7	266.7	181.7	133.3	114.2	49.6	26.4	19.1	14.2	12.2
1.70V/cell	585.4	369.4	279.7	189.0	135.5	115.4	50.4	27.0	19.2	14.4	12.4
1.67V/cell	602.6	376.9	285.1	192.2	136.6	116.5	50.8	27.2	19.4	14.6	12.5
1.60V/cell	613.4	382.3	288.4	194.4	137.8	117.6	51.3	27.5	19.5	14.8	12.7

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	877.9	602.7	468.3	324.5	243.0	208.3	93.0	49.8	36.0	27.4	23.6
1.80V/cell	981.8	658.4	507.2	348.6	259.8	222.9	96.9	51.7	37.2	28.1	24.2
1.75V/cell	1046.9	673.1	516.6	353.9	264.3	225.1	98.9	52.8	38.2	28.5	24.5
1.70V/cell	1111.3	706.3	540.0	368.3	266.6	227.4	100.4	53.8	38.5	28.8	24.8
1.67V/cell	1135.1	718.2	547.6	372.6	269.9	229.6	101.1	54.3	38.8	29.3	25.1
1.60V/cell	1147.0	723.6	551.9	374.8	271.0	230.7	101.9	54.8	39.0	29.6	25.4



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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

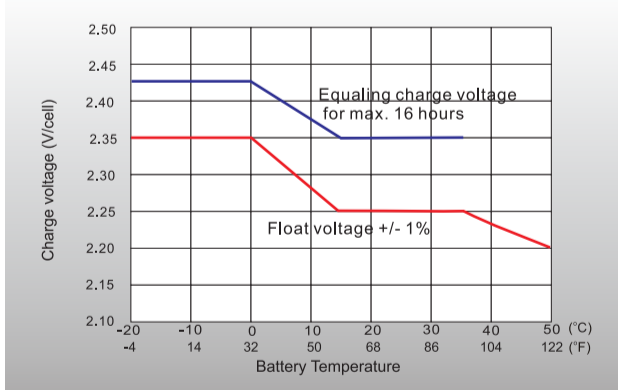
General Features

- 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

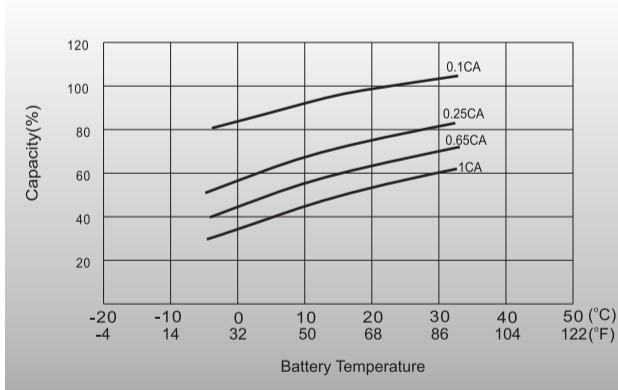
Standards

- 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

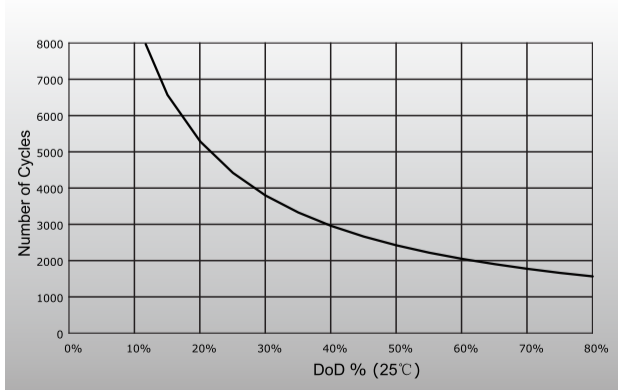
Charge voltage vs ambient temperature curve



Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Float Service Life

