



# Solar Series-Tubular Gel

## 6 OPzV600(2V840Ah)

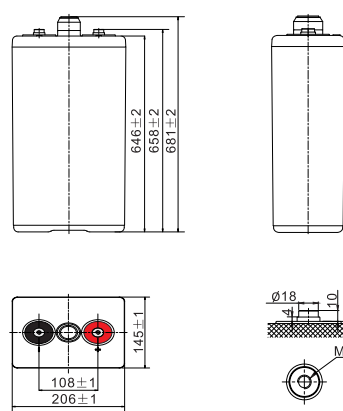


### Specifications

Rated Voltage	2V	
Nominal Capacity	840Ah	(C <sub>100</sub> , 1.80V/cell)
Dimension	Length	145mm(5.71 in.)
	Width	206mm(8.11 in.)
	Container Height	646mm(25.43 in.)
	Total Height	681mm(26.81 in.)
Approx Weight	46.0Kg (101.41 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	864.0 Ah	(120hr, 7.2A, 1.80V/cell)
	840.0 Ah	(100hr, 8.4A, 1.80V/cell)
	799.2 Ah	(72hr, 11.1A, 1.80V/cell)
	672.0 Ah	(10hr, 67.2A, 1.80V/cell)
Max. Discharge Current (5s)	4800A	
Internal Resistance(25°C)	Approx.0.60mΩ	
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)	150.0A	
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	272.0	185.9	143.9	98.9	73.7	62.9	27.9	14.9	10.7	8.2	7.0
1.80V/cell	306.6	204.8	156.5	107.1	79.0	67.2	29.1	15.5	11.1	8.4	7.2
1.75V/cell	328.7	210.0	159.6	109.2	80.3	68.2	29.7	15.9	11.4	8.5	7.3
1.70V/cell	351.0	221.4	168.5	113.4	81.3	69.0	30.2	16.2	11.5	8.6	7.4
1.67V/cell	361.8	225.7	170.6	115.6	82.3	69.8	30.5	16.3	11.6	8.8	7.5
1.60V/cell	368.3	229.0	172.8	116.6	83.0	70.2	30.8	16.5	11.7	8.9	7.6

### 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	526.6	361.2	281.4	194.3	145.6	125.4	55.8	29.9	21.6	16.4	14.1
1.80V/cell	588.7	394.8	304.5	209.0	155.7	133.3	58.1	31.0	22.3	16.9	14.5
1.75V/cell	627.9	404.3	309.8	212.1	157.9	135.5	59.3	31.7	22.9	17.1	14.7
1.70V/cell	666.4	424.4	324.0	221.4	160.2	136.6	60.2	32.3	23.1	17.3	14.9
1.67V/cell	681.5	430.9	328.3	223.6	161.3	137.8	60.7	32.6	23.3	17.6	15.1
1.60V/cell	688.0	434.2	330.5	224.6	162.4	138.9	61.1	32.9	23.4	17.7	15.2



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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

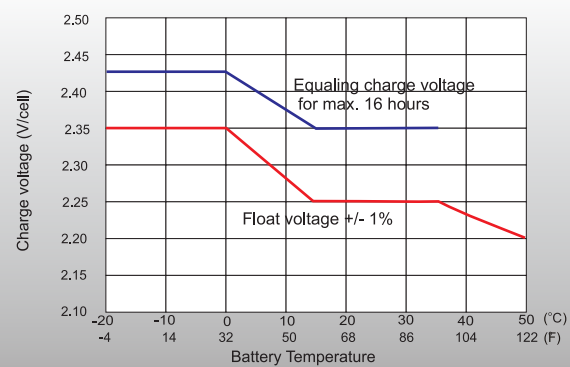
### General Features

- 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-SiO<sub>2</sub> and low resistance
- Pasted negative plate special grid design increase the active material.availability large current discharge and charge ability
- Tubular 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

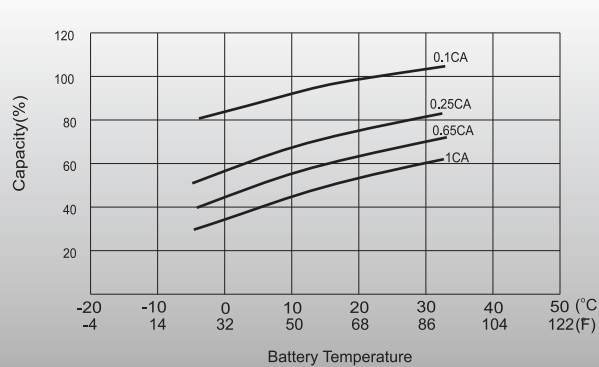
### Standards

- 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

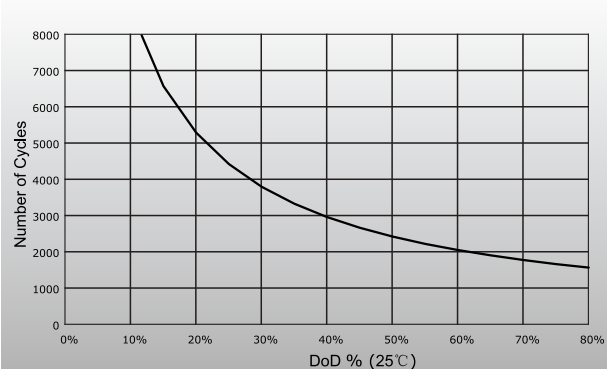
### Charge voltage vs ambient temperature curve



### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### Float Service Life

