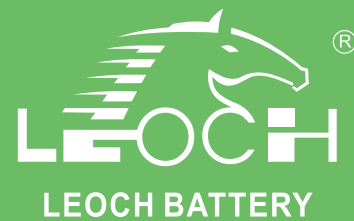




# Solar Series-Tubular Gel

## 8 OPzV800(2V1040Ah)

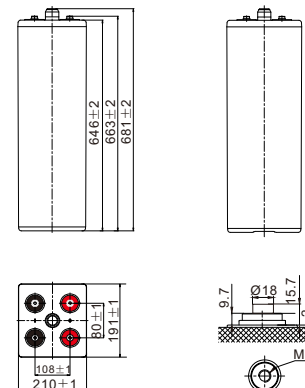


### Specifications

Rated Voltage	2V	
Nominal Capacity	1040Ah	(C <sub>100</sub> , 1.80V/cell)
Dimension	Length	191mm(7.52 in.)
	Width	210mm(8.27 in.)
	Container Height	646mm(25.43 in.)
	Total Height	681mm(26.81 in.)
Approx Weight	65.1Kg (143.52 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1080.0 Ah	(120hr, 9.00A, 1.80V/cell)
	1040.0 Ah	(100hr, 10.4A, 1.80V/cell)
	1000.8 Ah	(72hr, 13.9A, 1.80V/cell)
	800.0 Ah	(10hr, 80.0A, 1.80V/cell)
Max. Discharge Current (5s)	6400A	
Internal Resistance(25°C)	Approx.0.50mΩ	
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)	200.0A	
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	357.5	241.8	185.6	127.0	89.0	75.0	35.6	18.6	13.4	10.1	8.75
1.80V/cell	400.8	264.8	201.9	136.8	95.2	80.0	36.8	19.3	13.9	10.4	9.00
1.75V/cell	416.7	274.0	206.4	139.5	96.8	81.4	37.1	19.8	14.2	10.6	9.13
1.70V/cell	435.0	280.9	210.6	141.6	98.2	82.3	37.7	20.2	14.4	10.8	9.26
1.67V/cell	446.3	285.5	214.5	143.9	99.3	83.0	38.0	20.4	14.5	10.9	9.38
1.60V/cell	453.2	290.1	217.0	145.3	100.0	83.7	38.3	20.6	14.6	11.1	9.48

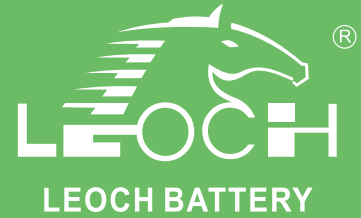
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	690.0	469.7	362.0	249.4	176.4	149.0	71.2	37.3	26.9	20.4	17.6
1.80V/cell	772.0	513.5	391.8	267.7	188.6	158.9	73.5	38.6	27.8	20.9	18.1
1.75V/cell	797.0	525.0	398.7	272.2	191.3	161.1	73.9	39.5	28.5	21.3	18.3
1.70V/cell	824.4	536.5	405.6	276.8	193.4	162.7	75.0	40.2	28.8	21.6	18.6
1.67V/cell	840.3	545.7	412.4	279.1	195.2	164.1	75.6	40.6	29.0	21.9	18.8
1.60V/cell	849.4	550.3	414.7	281.4	196.1	165.0	76.2	41.0	29.1	22.1	19.0



# Solar Series-Tubular Gel

## 8 OPzV800(2V1040Ah)



### 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

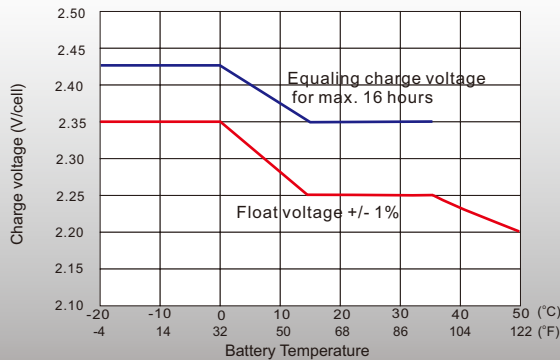
### General Features

- 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
- 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
- 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

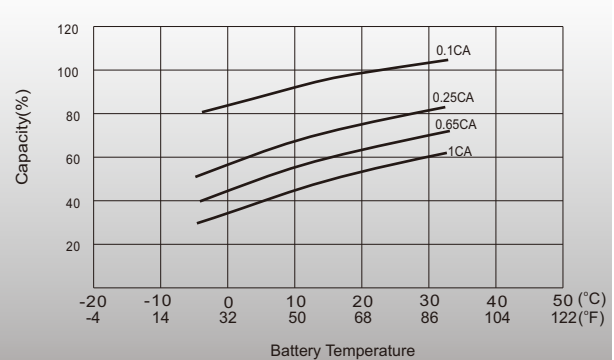
### Standards

- 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

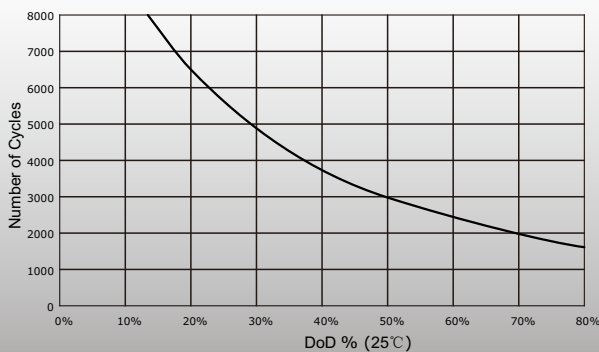
### Charge voltage vs ambient temperature curve



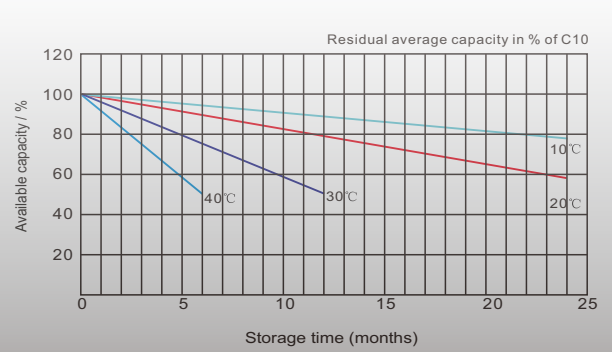
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



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