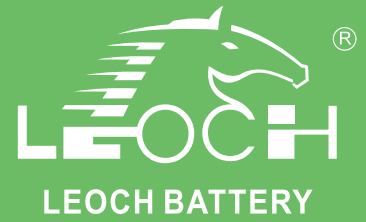




# Solar Series-Tubular Gel

## 10 OPzV1000(2V1300Ah)

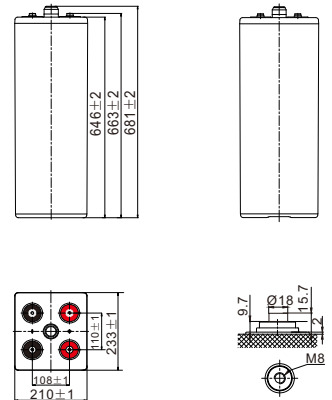


### Specifications

Rated Voltage	2V	
Nominal Capacity	1300Ah	(C <sub>100</sub> , 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)	1356.0 Ah	(120hr, 11.3A, 1.80V/cell)
	1300.0 Ah	(100hr, 13.0A, 1.80V/cell)
	1252.8 Ah	(72hr, 17.4A, 1.80V/cell)
	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
Max. Discharge Current (5s)	8000A	
Internal Resistance(25°C)	Approx.0.45mΩ	
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	446.9	302.2	232.0	158.7	111.2	93.7	44.5	23.3	16.7	12.7	10.9
1.80V/cell	501.0	331.0	252.3	171.0	119.0	100.0	46.0	24.2	17.4	13.0	11.3
1.75V/cell	520.9	342.5	258.1	174.4	121.0	101.7	46.3	24.7	17.8	13.3	11.4
1.70V/cell	543.7	351.1	263.2	177.0	122.7	102.9	47.1	25.2	18.0	13.5	11.6
1.67V/cell	557.9	356.9	268.1	179.9	124.2	103.7	47.5	25.5	18.1	13.7	11.7
1.60V/cell	566.5	362.7	271.2	181.6	125.0	104.6	47.9	25.7	18.3	13.8	11.9

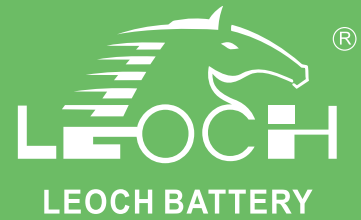
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	862.5	587.2	452.5	311.7	220.5	186.3	89.0	46.6	33.6	25.5	22.0
1.80V/cell	965.0	641.9	489.8	334.6	235.7	198.6	91.9	48.3	34.8	26.1	22.6
1.75V/cell	996.3	656.2	498.4	340.3	239.1	201.4	92.4	49.4	35.7	26.6	22.9
1.70V/cell	1030.5	670.6	507.0	346.0	241.7	203.4	93.8	50.3	36.0	27.0	23.2
1.67V/cell	1050.4	682.1	515.6	348.9	244.0	205.1	94.5	50.7	36.2	27.4	23.5
1.60V/cell	1061.8	687.9	518.4	351.7	245.2	206.3	95.2	51.2	36.4	27.6	23.7



# Solar Series-Tubular Gel

## 10 OPzV1000(2V1300Ah)



### 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

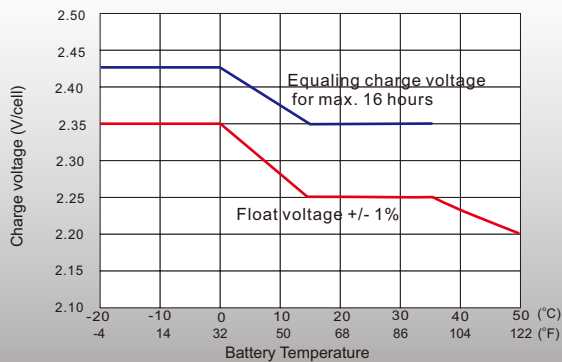
### General Features

- 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

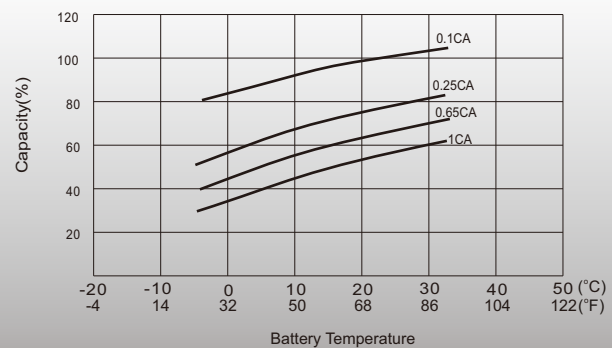
### Standards

- 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

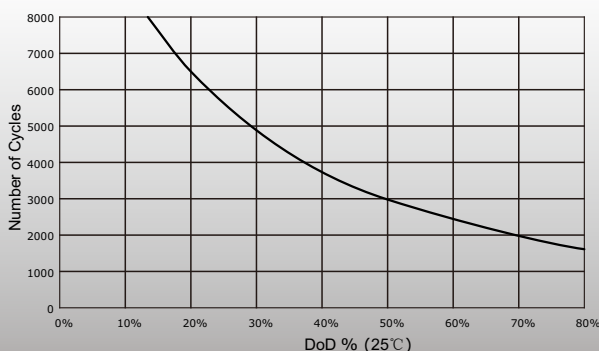
### Charge voltage vs ambient temperature curve



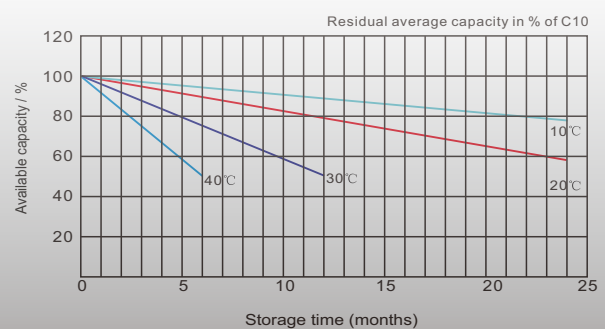
### Temperature effects in relation to battery capacity



### Cycle Life in Relation to DOD



### General Relation of Capacity VS. Storage Time



## Sales Offices Worldwide

#### China Sales Office

5th Floor, Xinhaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com

#### HongKong Sales Office

Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road,  
Tsuen Wan, New Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

#### Singapore Sales Office

No. 1 Tech Park Crescent,  
Singapore 638131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@Leoch.com

#### Australia Sales Office

2 /29 Tarlington Place, Smithfield. NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

#### North America Sales Office

19751 Descartes  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us

#### UK Sales Office

9B Wheatstone Court. Waterwells, Business Park,  
Gloucester, GL2-2AQ, UK United Kingdom  
Tel: +44(0) 1452 729428 / 1452 729696  
Fax: +44 1452 690125  
E-mail: Sales.Europe@leoch.com

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com

#### India Sales Office

Shed no.A-53(b), 2nd Stage of Peenya Industrial Area,  
Bangalore North Taluk, Bangalore-560058, India  
Tel: +91-80-23440018/23440019  
Fax: +91-80-23440017  
E-mail: indiasales@leoch.com



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