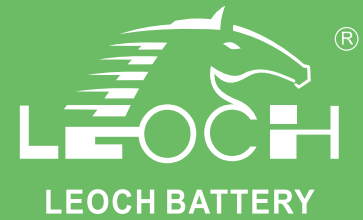




# OPzV Series-Tubular Gel

## 6 OPzV300(2V300Ah)

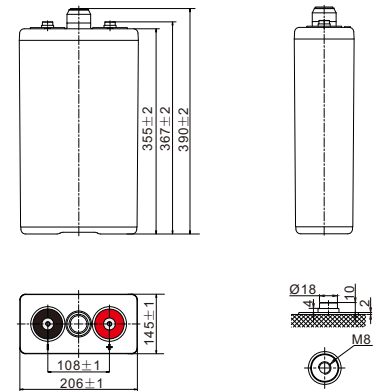


### Specifications

Rated Voltage	2V	
Nominal Capacity	300Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	145mm(5.71 in.)
	Width	206mm(8.11 in.)
	Container Height	355mm(13.97 in.)
	Total Height	390mm(15.35 in.)
Approx Weight	27.1Kg (59.75 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	300.0 Ah	(10hr,30.0A,1.80V/cell)
	263.0Ah	(5hr,52.6A,1.75V/cell)
	233.7Ah	(3hr,77.9A,1.75V/cell)
	168.0 Ah	(1hr,168.0A,1.65V/cell)
Max. Discharge Current (5s)	2400A	
Internal Resistance(25°C)	Approx. 1.0mΩ	
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)	75.0A	
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	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h
1.85V/cell	256.0	233.0	183.0	135.0	91.2	70.0	47.8	33.3	28.1
1.80V/cell	315.0	282.0	214.0	152.0	100.0	76.2	51.6	35.7	30.0
1.75V/cell	373.0	316.0	228.0	158.0	103.0	77.9	52.6	36.3	30.5
1.70V/cell	418.0	344.0	241.0	164.0	106.0	79.5	53.4	36.8	30.8
1.65V/cell	449.0	364.0	251.0	168.0	108.0	81.0	54.2	37.2	31.1
1.60V/cell	470.0	377.0	257.0	171.0	109.0	81.9	54.8	37.5	31.4

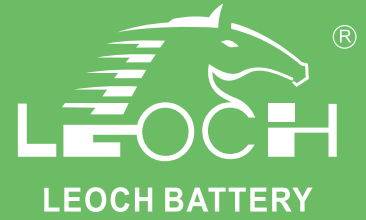
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h
1.85V/cell	476.0	438.0	350.0	260.0	177.0	137.0	94.1	66.1	55.9
1.80V/cell	576.0	522.0	404.0	291.0	194.0	148.0	101.0	70.6	59.6
1.75V/cell	669.0	577.0	426.0	301.0	198.0	151.0	103.0	71.7	60.4
1.70V/cell	738.0	620.0	447.0	311.0	202.0	153.0	104.0	72.4	61.0
1.65V/cell	778.0	645.0	460.0	317.0	205.0	155.0	105.0	73.1	61.5
1.60V/cell	799.0	658.0	467.0	321.0	207.0	157.0	106.0	73.5	61.9



# OPzV Series-Tubular Gel

## 6 OPzV300(2V300Ah)



### Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

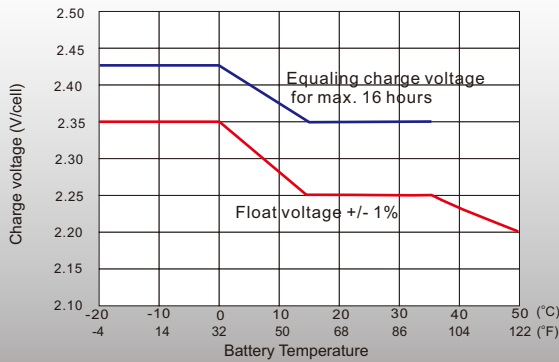
### General Features

- 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 from 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

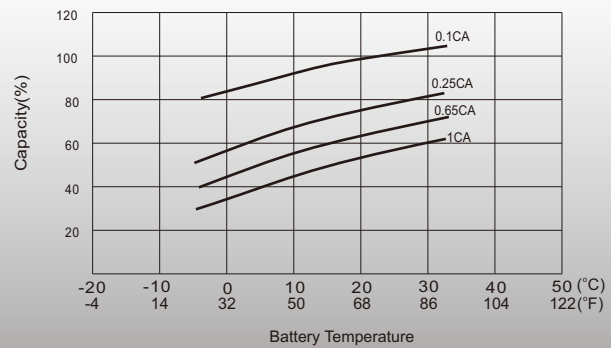
### Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

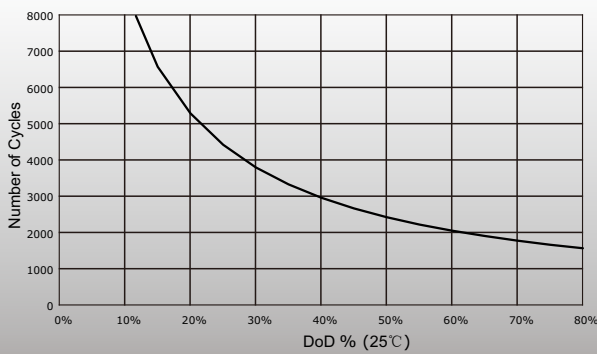
### Charge voltage vs ambient temperature curve



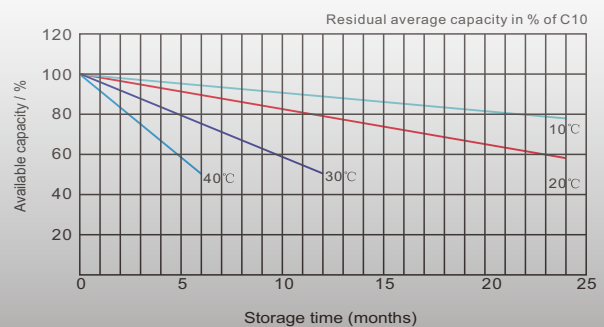
### Temperature effects in relation to battery capacity



### 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



[Http://www.leoch.com](http://www.leoch.com)  
[Http://www.leoch.us](http://www.leoch.us)

© 2019 LEOCH. All rights reserved.  
Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.  
Subject to revisions without prior notice.

Publication No.:LB-6 OPzV300-PD-EN-V1.1-201906