



OPzS Series-Flooded Battery

10 OPzS1000(2V1013.6Ah)

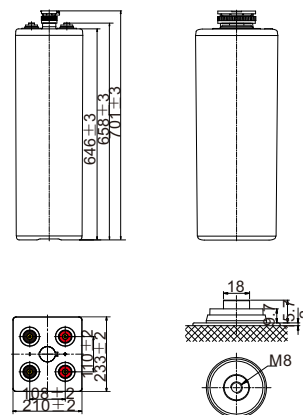


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	1013.6Ah
Dimension	Length	233±2mm (9.13 inches)
	Width	210±3mm (8.27 inches)
	Container Height	646±3mm (25.43 inches)
	Total Height	701±3mm (27.60 inches)
Approx Weight	Without Electrolyte 57.4kg (126.3lbs) With Electrolyte 77.4 kg (170.3lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1025.0Ah	(10hr, 102.5A, 1.80V/cell)
	1013.6Ah	(8hr, 126.7A, 1.75V/cell)
	910.0Ah	(5hr, 182.0A, 1.75V/cell)
	790.2Ah	(3hr, 263.4A, 1.75V/cell)
	585.3Ah	(1hr, 585.3A, 1.60V/cell)
Max. Discharge Current	8000A (5s)	
Internal Resistance (25°C)	Approx 0.44mΩ	
Operating Temp. Range	Discharge	-15 ~ 55°C (5 ~ 131°F)
	Charge	0 ~ 45°C (32 ~ 113°F)
	Storage	-15 ~ 45°C (5 ~ 113°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	461.3	435.9	406.9	345.7	297.3	228.9	189.5	163.6	143.7	117.1	98.1	53.9
1.80V/cell	578.1	526.1	475.6	388.8	327.5	250.1	204.9	174.6	152.5	123.2	102.5	56.1
1.75V/cell	649.9	583.5	516.6	414.8	348.5	263.4	214.0	182.0	158.4	126.7	104.8	57.1
1.70V/cell	692.9	612.2	544.3	435.3	363.9	271.9	220.7	187.0	162.3	128.7	106.6	58.1
1.65V/cell	729.8	649.1	565.8	449.7	372.6	280.1	225.8	191.2	165.4	131.1	108.3	58.9
1.60V/cell	777.0	675.2	585.3	461.3	381.3	285.0	229.1	193.7	167.7	132.7	109.6	59.5

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

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	854.7	812.0	761.5	649.4	560.7	433.9	360.7	312.6	275.9	225.8	190.2	104.9
1.80V/cell	1053.4	966.0	877.1	720.5	610.9	469.0	385.9	330.8	290.7	235.8	197.1	108.1
1.75V/cell	1168.3	1055.3	940.6	759.8	644.3	490.3	400.7	343.4	300.0	241.1	200.4	109.7
1.70V/cell	1225.1	1095.5	981.7	791.6	667.9	503.1	411.0	351.1	306.4	244.4	202.8	111.0
1.65V/cell	1272.8	1149.4	1012.9	812.4	680.9	515.7	419.2	357.4	311.3	247.7	205.6	112.1
1.60V/cell	1326.2	1181.5	1039.1	829.2	693.4	521.9	423.2	360.4	314.0	249.5	206.9	112.6



OPzS Series-Flooded Battery

10 OPzS1000(2V1013.6Ah)



Applications

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

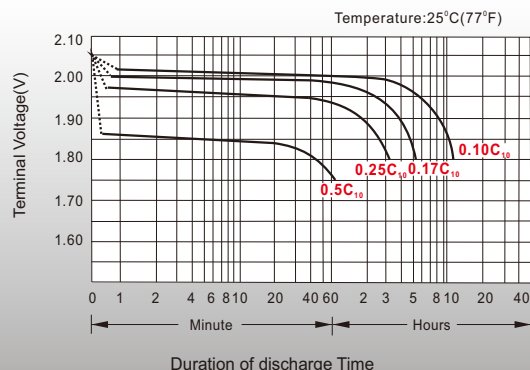
General Features

- 20 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

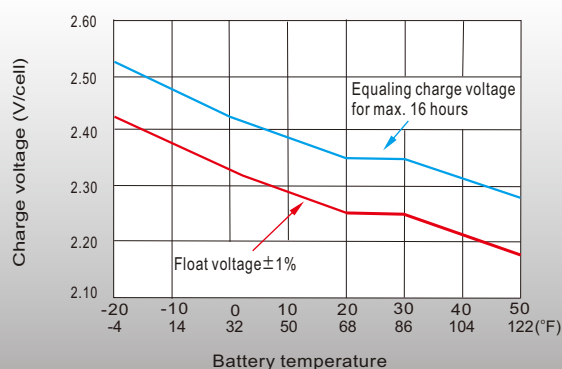
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

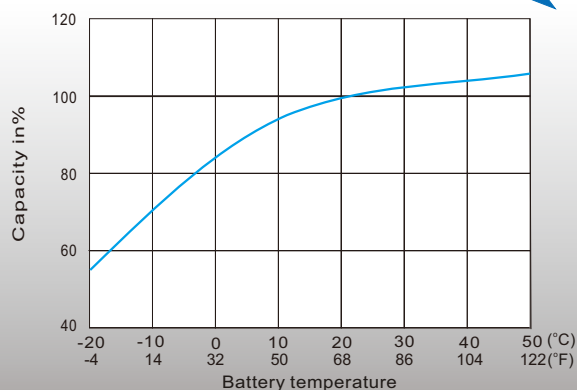
Discharge Characteristics



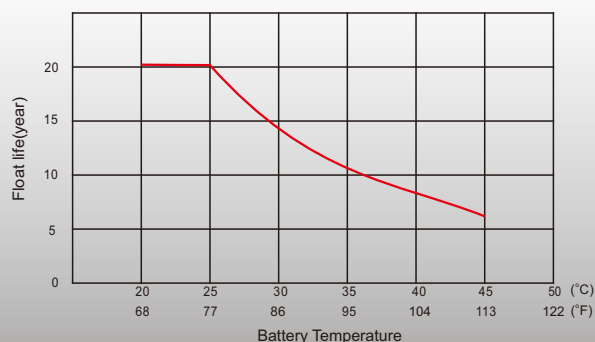
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



Sales Offices Worldwide

China Sales Office

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

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

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

Singapore Sales Office

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

EMEA Sales Office

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

Australia Sales Office

2/29 Tarlington Place, Smithfield. NSW 2164
Australia
Tel: 02 9756 0950
E-mail: sales.au@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-10 OPzS1000-PD-US-V1.0-201903