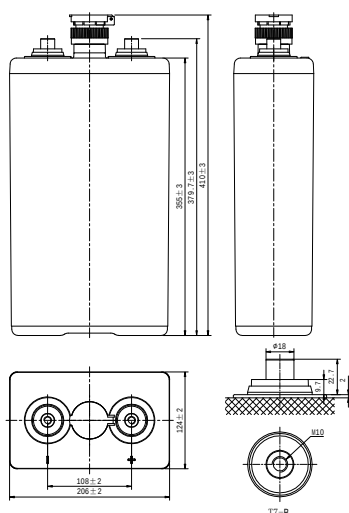


OPzS SERIES-FLOODED BATTERY

5OPzS250 (2V250Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	250Ah
Dimension	Length	124mm (4.88inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight	20.4kg (45.0lbs)	
Dry Weight	15.4kg (34.0lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	2000A	
Internal Resistance (20°C)	Approx 1.1 mΩ (Fully charged)	
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±5°C (77±9°F)	
Max.Charging Current (20°C)	0.15C	
Charge voltage (20°C)	Standby Use	Cycle Use
	2.23-2.25V/cell	2.40-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
	20°C (68°F)	100%
Effect of temp. to Capacity	0°C (32°F)	86%
	Self Discharge ≤4% per month at 20°C	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 20°C (68°F)													
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	99.3	72.5	55.8	46.2	39.9	35.0	28.6	23.9	13.1	11.0	3.95	2.96	2.54
1.80V/cell	116.0	79.9	61.0	50.0	42.6	37.2	30.0	25.0	13.7	11.5	4.13	3.10	2.65
1.75V/cell	126.0	85.0	64.3	52.2	44.4	38.6	30.9	25.6	13.9	11.7	4.19	3.14	2.69
1.70V/cell	132.8	88.8	66.3	53.8	45.6	39.6	31.4	26.0	14.2	/	/	/	/
1.65V/cell	138.0	90.9	68.3	55.1	46.6	40.3	32.0	26.4	14.4	/	/	/	/
1.60V/cell	142.8	93.0	69.5	55.9	47.3	40.9	32.4	26.7	14.5	/	/	/	/
Constant Power Discharge (Watts/cell) at 20°C (68°F)													
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	185.7	136.7	105.8	88.0	76.3	67.3	55.1	46.4	25.6	21.5	7.64	5.70	4.87
1.80V/cell	213.9	149.0	114.4	94.1	80.7	70.9	57.5	48.1	26.4	22.1	7.88	5.88	5.03
1.75V/cell	229.4	157.2	119.6	97.7	83.7	73.2	58.8	48.9	26.7	22.4	7.97	5.95	5.08
1.70V/cell	239.4	162.9	122.7	100.3	85.6	74.7	59.6	49.5	27.1	/	/	/	/
1.65V/cell	247.1	166.1	125.8	102.2	87.2	75.9	60.4	50.1	27.4	/	/	/	/
1.60V/cell	253.5	169.1	127.3	103.2	87.9	76.6	60.9	50.5	27.5	/	/	/	/

OPzS SERIES-FLOODED BATTERY

5OPzS250 (2V250Ah)



APPLICATIONS

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

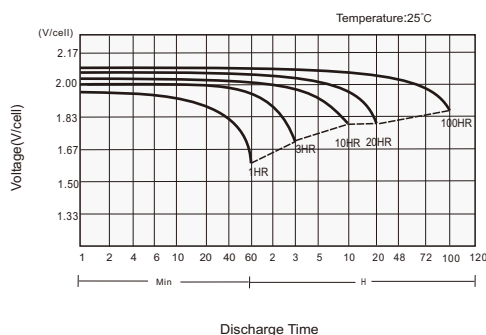
GENERAL FEATURES

- 20 years design life (20°C)
- Positive electrodes-die-cast tubular plates with low antimony lead alloy for longer life
- Transparent SAN Containers to allow electrolyte level and cell condition to be monitored visually
- Excellent standby and cycling behaviour - long life

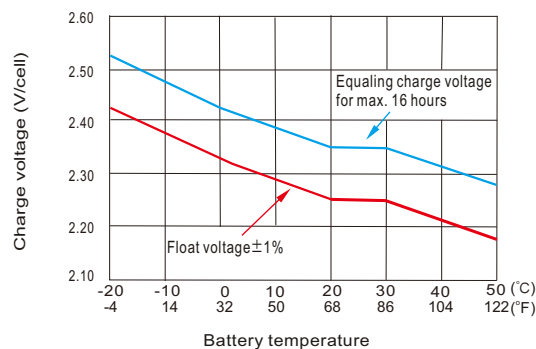
STANDARDS

- Acc.to IEC60896, DIN 40736 standards
- Manufactured in Leoch®IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

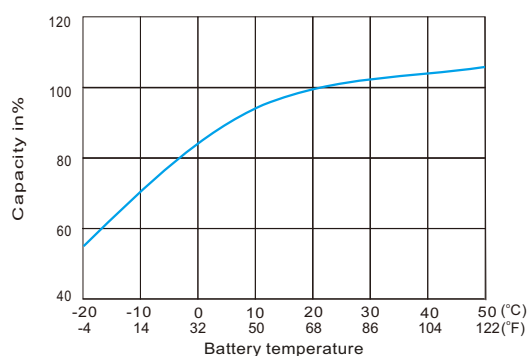
Discharge Characteristics



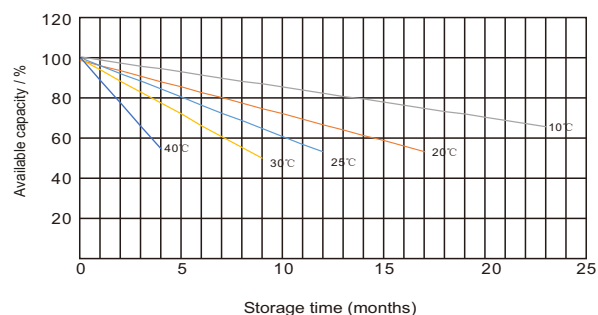
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics



Leoch International Technology Ltd.

www.leoch.com

Leoch Batteries Pte Ltd

www.leoch.sg

Leoch Battery Corporation

www.leochamericas.com

Leoch Europe S.A.

www.leoch.eu

Data above is recommended and the picture is only for battery effect display, Leoch reserve the final right of explanation.

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

Publication No.: LB-5OPzS250-PD-EN-V20-20240130