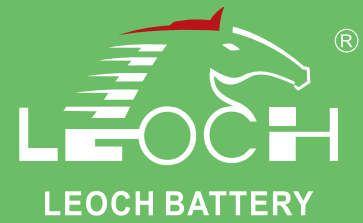




OPzS Series-Flooded Battery

12 OPzS1500(2V1500Ah)

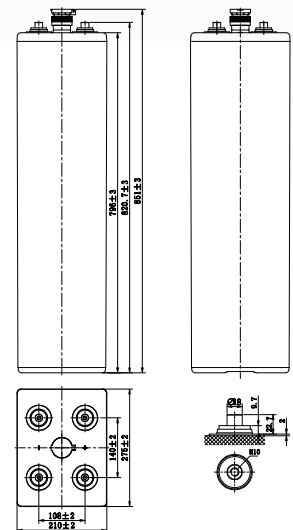


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	1500.0Ah
Dimension	Length	275±2mm (10.83 inches)
	Width	210±3mm (8.27 inches)
	Container Height	796±3mm (31.34 inches)
	Total Height	851±3mm (33.50 inches)
Approx Weight	Without Electrolyte	83.8kg (184.4lbs)
	With Electrolyte	113.8 kg (250.4lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity	1500.0 Ah	(10hr, 150.0A, 1.80V/cell)
	1332.0 Ah	(5hr, 266.4A, 1.75V/cell)
	1156.5 Ah	(3hr, 385.4A, 1.75V/cell)
	856.5 Ah	(1hr, 856.5A, 1.60V/cell)
Max. Discharge Current	12000A (5s)	
Internal Resistance (20°C)	Approx 0.45mΩ	
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)	
Cycle Use	Initial Charging Current less than 0.15CA. Voltage 2.40V~2.45V at 20°C(68°F)Temp. Coefficient -5mV/°C	
	Initial Charging Current less than 0.15CA. Voltage 2.23V~2.25V at 20°C(68°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	20°C (68°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 20°C	



Layout



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	595.5	435.0	335.0	277.4	239.4	210.3	171.3	143.6	78.8	66.1	23.7	17.8	15.3
1.80V/cell	696.0	479.3	366.0	299.8	255.4	223.3	180.3	150.0	82.0	68.8	24.7	18.5	15.9
1.75V/cell	756.0	510.0	385.5	313.1	266.4	231.8	185.3	153.3	83.6	70.1	25.2	18.9	16.2
1.70V/cell	796.5	532.5	398.0	322.9	273.7	237.5	188.5	155.9	85.0	/	/	/	/
1.65V/cell	828.0	545.3	410.0	330.4	279.7	242.0	191.8	158.5	86.2	/	/	/	/
1.60V/cell	856.5	558.0	417.0	335.3	283.5	245.4	194.2	160.4	87.0	/	/	/	/

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	1114.3	820.5	635.0	527.8	457.6	403.9	330.5	278.4	153.5	128.7	45.9	34.3	29.3
1.80V/cell	1283.5	894.0	686.4	564.7	484.0	425.5	345.0	288.5	158.3	132.7	47.3	35.3	30.2
1.75V/cell	1376.5	942.9	717.5	586.4	502.5	439.0	352.8	293.3	160.5	134.5	47.9	35.8	30.6
1.70V/cell	1436.6	977.4	736.1	601.5	513.7	448.3	357.6	296.9	162.5	/	/	/	/
1.65V/cell	1482.3	996.5	754.7	613.5	523.0	455.5	362.5	300.8	164.2	/	/	/	/
1.60V/cell	1520.7	1014.7	763.7	619.4	527.4	459.5	365.2	302.9	164.9	/	/	/	/



IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com



OPzS Series-Flooded Battery

12 OPzS1500(2V1500Ah)



Applications

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

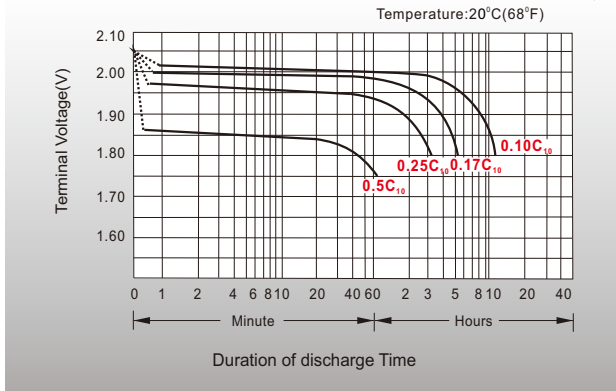
General Features

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

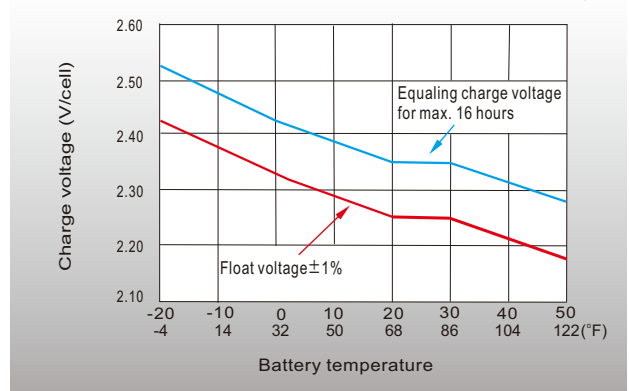
Standards

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

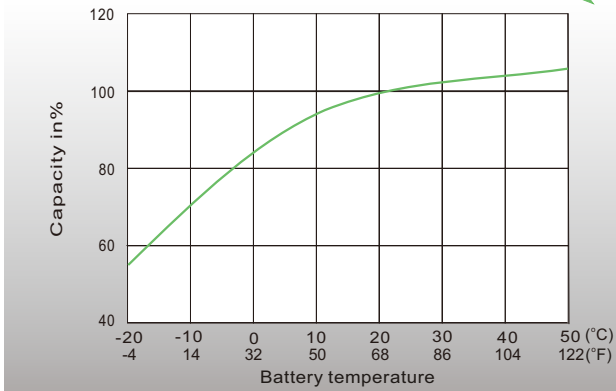
Discharge Characteristics



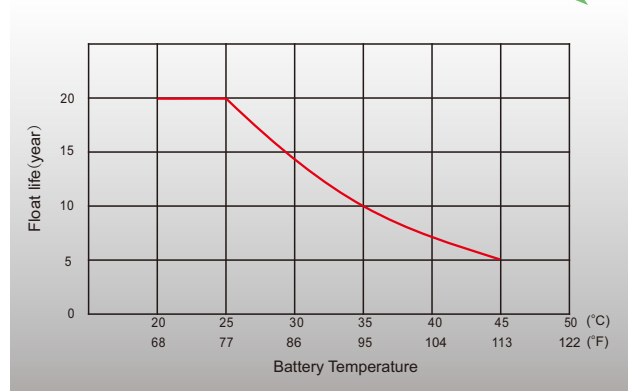
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (10A)



Effect of Temperature on Long Term Float Life



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