Eternity TECHNOLOGIES

10 OPzS-ET 1000

(2V 1150Ah @ 10hr)

Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (115A, 1.8V)	1150Ah
5 hour rate (198A, 1.75V)	988.5Ah
1 hour rate (659A, 1.6V)	659Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.27mOhm
Electrolyte	
Nominal S.G at 20°C = 1.240kg/l	
Operating Temperature Range	-20°C to +55°C
Maximum Discharge Current 20°C (68°F)	1281A
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	460A
Standby use	2.25V ± 1%
Temperature compensation	-3.5mV/°C/Cell
Terminal torque	23Nm

Discharge Constant Current (Amperes at 20°C)

Cells (V)	10 m	15 m	30 m	1 h	2 h	3 h	5 h	8 h	10 h
1.60	1195.4	1124.8	912.9	658.7	429.7	307.7	202.8	146.3	121.1
1.65	1074.3	1007.8	833.2	625.4	417.6	304.6	202.8	146.3	121.1
1.70	949.3	888.7	749.5	582.1	400.5	296.6	200.7	143.2	120.0
1.75	819.1	767.7	659.7	530.6	377.3	283.5	197.7	141.2	118.0
1.80	683.9	644.6	563.9	468.1	346.0	265.3	190.7	136.2	115.0
1.83	600.2	567.9	501.4	423.7	319.8	250.2	181.6	132.1	112.0
1.85	543.7	517.5	460.0	393.4	301.6	239.1	176.5	129.1	110.0
1.87	484.2	465.0	415.6	358.1	278.4	222.9	168.5	124.1	104.9
1.90	396.4	385.4	348.0	304.6	242.1	199.7	155.4	115.0	97.8

Discharge Constant Power (Watts at 20°C)

Cells (V)	10 m	15 m	30 m	1 h	2 h	3 h	5 h	8 h	10 h
1.60	1962.1	1866.2	1553.5	1160.1	786.8	573.0	385.4	280.4	233.0
1.65	1805.7	1709.9	1442.5	1114.7	769.7	568.9	385.4	280.4	233.0
1.70	1634.2	1543.4	1321.5	1054.2	742.5	555.8	382.3	275.4	231.0
1.75	1447.6	1366.9	1185.3	970.4	704.1	534.6	377.3	272.4	229.0
1.80	1240.8	1175.2	1034.0	867.5	649.6	503.4	366.2	264.3	223.9
1.83	1104.6	1049.1	930.1	791.9	604.3	476.1	352.1	257.2	218.9
1.85	1008.8	964.4	861.5	741.4	574.0	458.0	342.0	253.2	215.9
1.87	906.9	872.6	783.8	679.9	531.6	429.7	326.8	242.1	206.8
1.90	754.6	735.4	665.8	587.1	468.1	388.4	304.6	227.0	193.7

Features

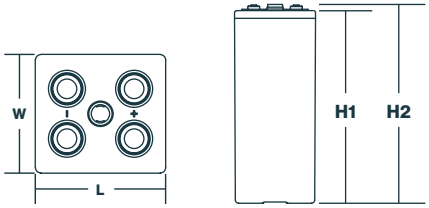
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

- Telecommunications/ Mobile Phone Stations
- Traffic Systems
- UPS Systems
- Emergency Lighting
- Electrical Switching

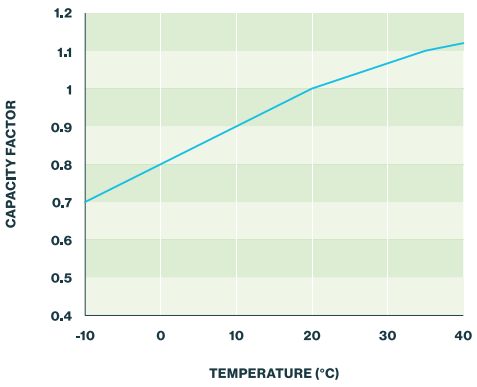
Dimensions and weight

Length (max)	215 mm
Width (max)	235 mm
Height: H1 (max)	650 mm
Total height: H2 (max)	665 mm
Filled weight (max)	76.7 kg

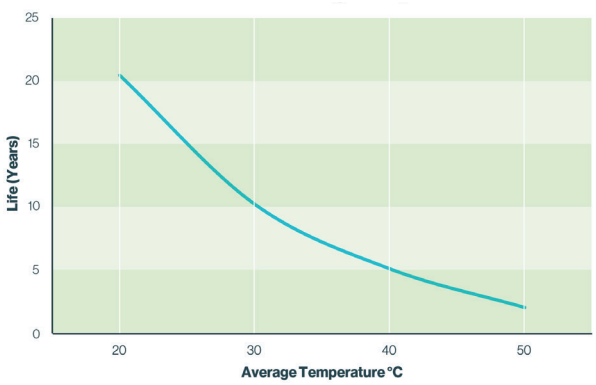


Compliant with IEC60896-11

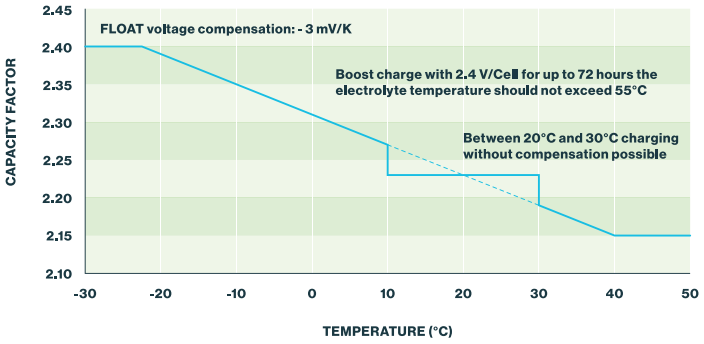
Capacity factor vs. Temperature - discharge current I_{10}



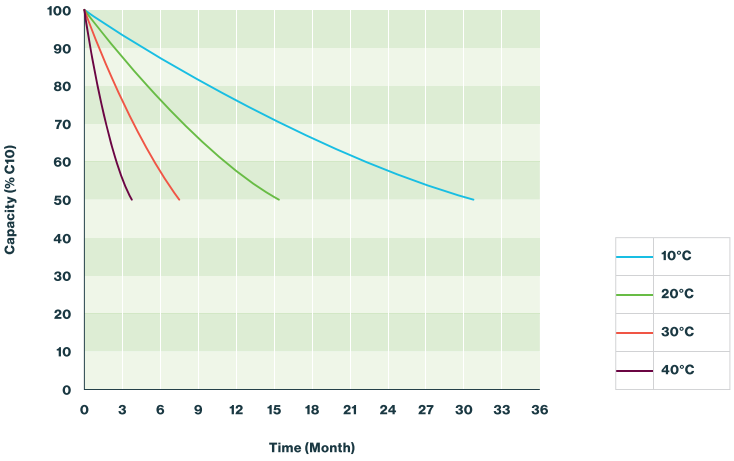
Float Life vs. Average Temperature



Charging voltage vs. Temperature



Self discharge



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