Eternity TECHNOLOGIES

6 OPzS-ET 420

(2V 480Ah @ 10hr)

Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (48A, 1.8V)	480Ah
5 hour rate (86A, 1.75V)	429.5Ah
1 hour rate (267A, 1.6V)	267Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.57mOhm
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)	625A
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	192A
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	565.5	507.4	390.3	266.9	174.1	131.9	87.3	61.0	50.4
1.65	506.4	461.0	365.0	259.5	170.9	129.8	88.3	61.0	50.4
1.70	446.2	411.4	336.5	247.9	166.7	126.6	87.9	61.0	50.4
1.75	384.0	359.7	303.8	233.1	160.4	122.4	85.9	59.5	49.5
1.80	319.6	304.9	265.8	211.0	149.8	117.1	82.1	57.6	48.0
1.83	279.6	269.0	237.4	193.1	140.3	110.8	78.9	56.1	46.8
1.85	253.2	244.7	218.4	181.5	134.0	106.5	76.8	55.2	46.1
1.87	225.8	218.4	196.2	165.6	124.5	100.9	73.0	52.7	44.0
1.90	184.6	178.3	163.5	141.4	110.8	92.2	67.2	48.9	40.8

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	927.3	840.8	665.7	469.5	318.6	245.8	167.7	117.1	97.5
1.65	851.3	780.7	630.9	462.1	315.4	242.6	167.7	117.1	97.5
1.70	770.1	714.2	592.9	448.4	310.2	237.4	167.7	117.1	97.5
1.75	679.4	640.4	545.4	426.2	300.7	232.1	164.6	115.0	95.9
1.80	580.2	554.9	486.3	391.4	282.7	222.6	158.2	111.8	93.4
1.83	514.8	495.8	441.0	361.8	265.8	212.0	153.0	109.7	91.5
1.85	471.6	456.8	410.4	341.8	255.3	203.6	148.7	107.6	90.3
1.87	424.1	410.4	371.3	314.4	238.4	194.1	142.4	103.4	86.4
1.90	352.4	340.7	312.3	272.2	213.1	179.3	131.9	96.6	80.7

Features

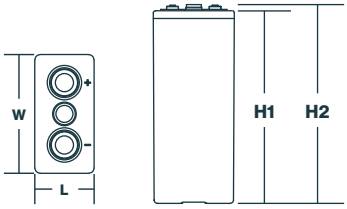
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

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

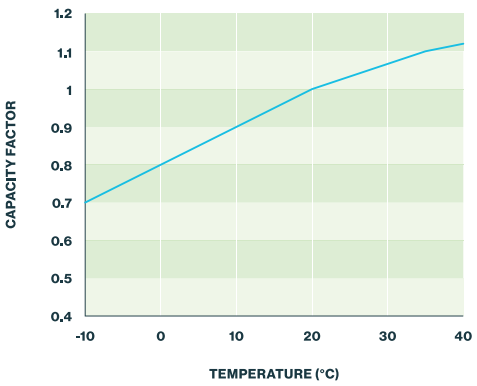
Dimensions and weight

Length (max)	147 mm
Width (max)	208 mm
Height: H1 (max)	475 mm
Total height: H2 (max)	490 mm
Filled weight (max)	33.8 kg

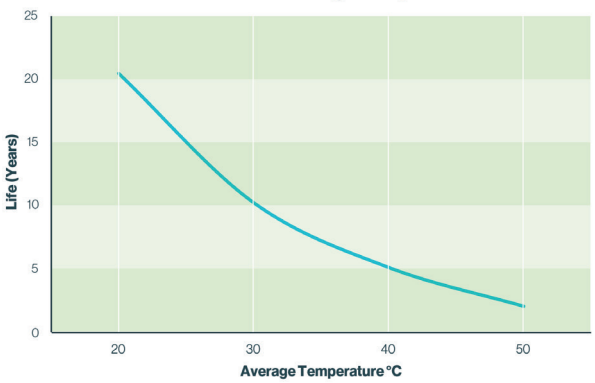


Compliant with IEC60896-11

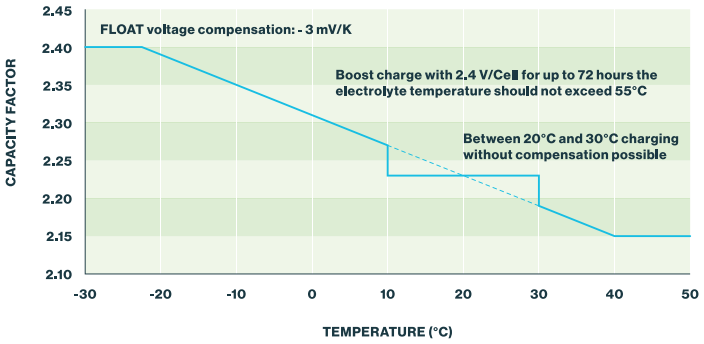
Capacity factor vs. Temperature - discharge current I_{10}



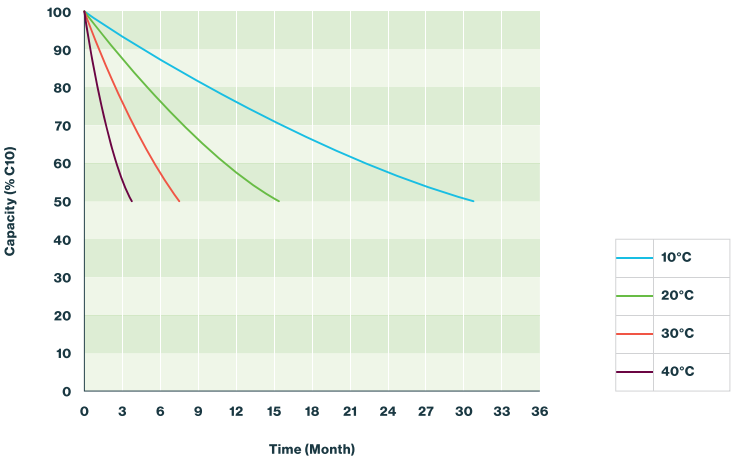
Float Life vs. Average Temperature



Charging voltage vs. Temperature



Self discharge



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