Eternity TECHNOLOGIES

6 OPzS-ET 600

(2V 690Ah @ 10hr)

Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (69A, 1.8V)	690Ah
5 hour rate (118A, 1.75V)	588.5Ah
1 hour rate (394A, 1.6V)	394Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.47mOhm
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)	734A
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	276A
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	682.9	654.5	535.8	393.7	255.7	181.6	120.8	87.7	72.5
1.65	613.9	584.5	489.1	369.4	246.6	179.6	120.8	87.7	72.5
1.70	542.9	514.5	439.4	342.0	236.4	175.5	119.7	85.5	71.7
1.75	468.8	443.4	386.6	310.5	223.2	169.5	117.7	84.2	71.0
1.80	393.7	373.4	329.8	275.0	205.0	158.3	113.6	81.4	69.0
1.83	346.0	329.8	293.3	248.6	189.8	149.2	108.6	78.9	67.4
1.85	313.5	300.4	268.9	231.4	179.6	142.1	104.5	77.3	66.3
1.87	281.1	270.9	242.5	210.0	165.4	132.9	99.9	74.0	63.2
1.90	231.4	226.3	204.0	177.6	143.1	118.7	92.4	69.0	58.7

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	1121.3	1085.7	913.2	694.1	468.8	337.9	229.3	168.4	140.0
1.65	1029.9	990.4	846.3	657.5	455.6	336.9	229.3	168.4	140.0
1.70	936.6	891.9	775.2	616.9	437.3	329.8	227.3	164.4	139.0
1.75	830.0	788.4	695.1	568.2	416.0	318.6	224.3	162.4	138.0
1.80	713.3	679.9	604.8	510.4	385.6	300.4	218.2	158.3	133.9
1.83	636.2	608.8	543.9	465.8	359.2	284.1	209.0	154.2	131.9
1.85	583.5	561.1	504.3	436.3	340.9	271.9	204.0	151.2	129.9
1.87	526.6	509.4	458.6	397.8	315.6	255.7	194.8	145.1	123.8
1.90	440.4	432.3	389.6	340.9	278.0	230.3	181.6	136.0	115.7

Features

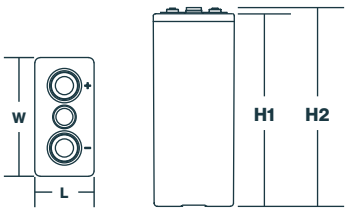
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

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

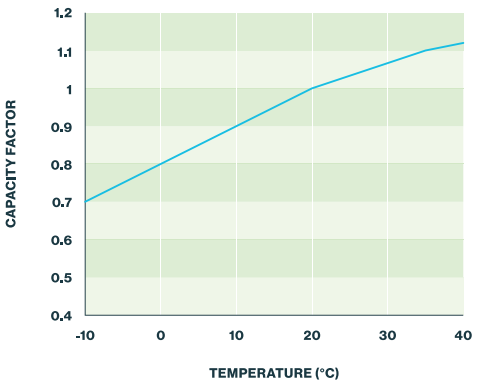
Dimensions and weight

Length (max)	147 mm
Width (max)	208 mm
Height: H1 (max)	650 mm
Total height: H2 (max)	665 mm
Filled weight (max)	46.5 kg

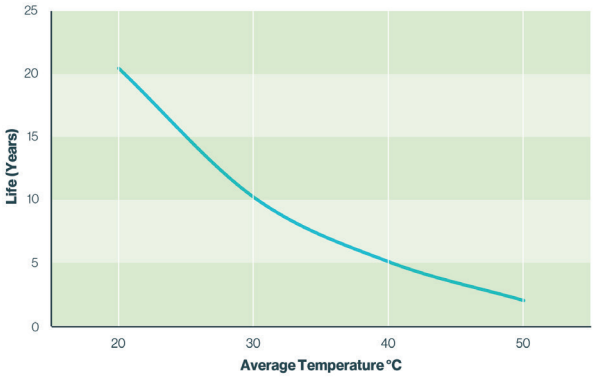


Compliant with IEC60896-11

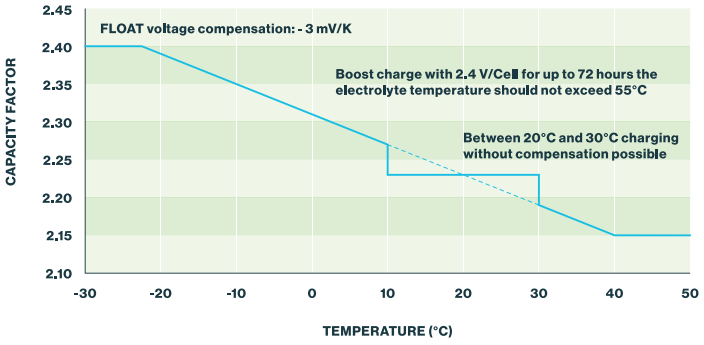
Capacity factor vs. Temperature - discharge current I_{10}



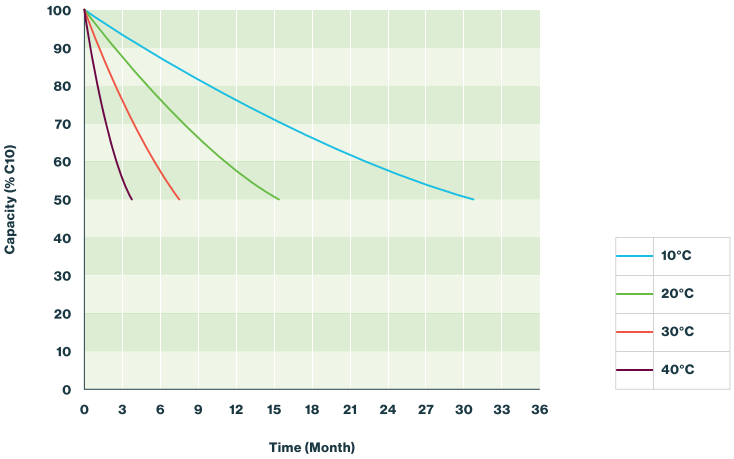
Float Life vs. Average Temperature



Charging voltage vs. Temperature



Self discharge



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