Eternity TECHNOLOGIES

4 OPzS-ET 200

(2V 225Ah @ 10hr)

Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (22.5A, 1.8V)	225Ah
5 hour rate (41A, 1.75V)	205Ah
1 hour rate (127A, 1.6V)	127Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.89mOhm
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)	373A
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	90A
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	324.9	280.7	199.8	127.2	81.3	63.0	42.0	28.3	23.4
1.65	300.7	261.8	191.4	124.1	80.3	62.5	42.2	28.3	23.4
1.70	271.3	240.8	180.8	120.9	79.1	61.6	41.7	28.3	23.4
1.75	237.6	215.5	166.1	114.6	77.3	60.0	41.1	28.1	23.2
1.80	199.8	182.9	147.2	106.2	73.5	57.4	39.5	26.9	22.5
1.83	174.5	160.9	132.5	99.6	69.8	54.7	37.9	26.3	22.0
1.85	157.7	146.1	124.1	94.9	67.4	52.8	36.7	25.9	21.7
1.87	140.9	131.4	112.5	88.6	63.5	49.9	35	24.9	20.7
1.90	114.6	109.3	96.7	79.1	57.8	45.7	32.7	23.7	19.2

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	533.1	465.8	340.7	223.9	148.2	117.8	80.0	54.5	45.3
1.65	505.7	444.7	331.2	221.8	148.2	116.7	80.0	54.5	45.3
1.70	467.9	418.5	319.6	217.6	146.1	115.7	79.5	54.5	45.3
1.75	421.6	383.8	299.6	210.3	144.0	113.6	78.5	54.3	45.0
1.80	363.8	333.3	269.2	197.7	137.7	108.3	76.0	52.3	43.8
1.83	321.7	297.5	247.1	186.1	132.5	104.2	73.1	51.2	43.0
1.85	293.3	273.4	231.3	178.7	128.3	101.0	71.1	50.5	42.4
1.87	262.9	247.1	213.4	168.2	122.0	96.2	68.3	48.9	40.6
1.90	217.6	208.2	185.0	152.5	111.4	88.8	64.0	46.6	38.0

Features

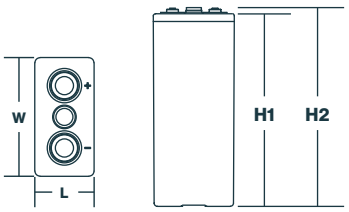
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

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

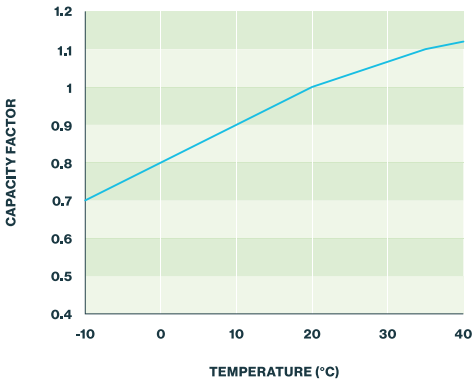
Dimensions and weight

Length (max)	105 mm
Width (max)	208 mm
Height: H1 (max)	360 mm
Total height: H2 (max)	375 mm
Filled weight (max)	17.4 kg

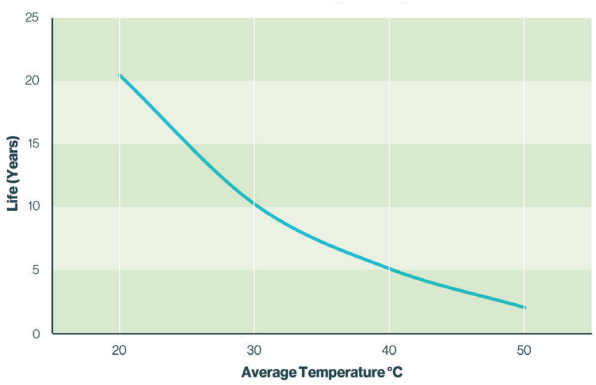


Compliant with IEC60896-11

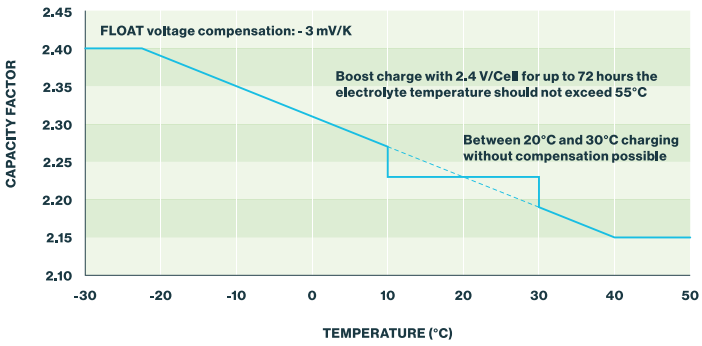
Capacity factor vs. Temperature - discharge current I_{10}



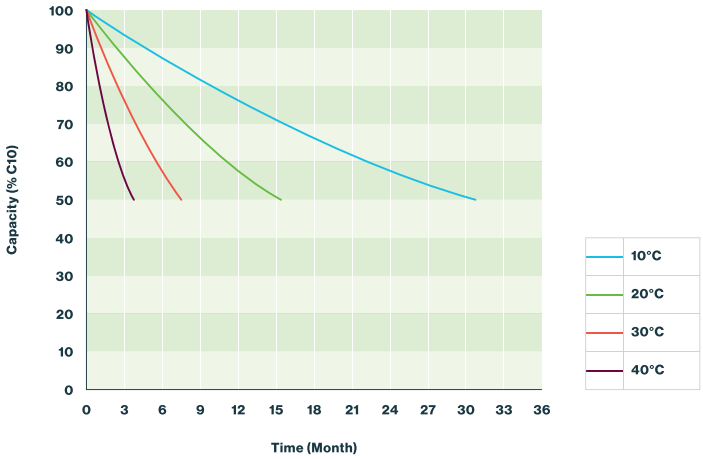
Float Life vs. Average Temperature



Charging voltage vs. Temperature



Self discharge



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