05OPzS0250

(2V 280Ah @ 10hr)

Eternity Technologies vented lead-acid batteries for the standby power market. Eternity Technologies OPzS batteries have optimised design resulting in a low maintenance, reliable energy storage solution for critical and unstable conditions.

N Part of our Network Power range

Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (28A, 1.8V)	280Ah
5 hour rate (51A, 1.75V)	255Ah
1 hour rate (156A, 1.6V)	156Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.74mOhm
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)	459A
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	112A
Standby use	2.25V ± 1%
Temperature compensation	-3.0mV/°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	398.3	343.4	245.1	156.4	101.1	77.6	52.0	35.0	29.2
1.65	367.7	320.2	234.6	153.2	100.0	76.9	52.2	35.0	29.2
1.70	330.7	293.7	221.9	149.0	98.3	75.9	51.7	35.0	29.2
1.75	289.5	263.1	203.9	141.6	95.9	74.0	50.8	34.8	28.8
1.80	243.0	222.9	179.6	131.0	91.2	70.7	48.9	33.4	28.0
1.83	212.4	195.5	162.7	122.6	86.5	67.3	46.8	32.5	27.4
1.85	191.2	177.5	151.1	116.2	83.5	65.0	45.3	32.0	26.9
1.87	170.1	159.5	137.4	108.8	78.7	61.5	43.4	30.9	25.7
1.90	138.4	132.1	118.3	96.9	71.6	56.3	40.5	29.3	23.9

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	653.0	569.5	417.4	276.8	184.9	144.8	99.1	67.4	56.3
1.65	617.1	543.1	405.7	273.7	183.8	143.7	99.1	67.4	56.3
1.70	570.6	510.3	390.9	268.4	181.7	142.6	98.4	67.4	56.3
1.75	512.5	467.0	366.6	258.9	179.6	139.5	97.3	67.1	56.0
1.80	441.7	405.7	328.6	242.0	171.2	134.2	94.1	64.7	54.5
1.83	389.9	361.4	301.1	229.3	163.8	127.8	90.4	63.4	53.5
1.85	356.1	330.7	283.2	219.8	158.5	124.7	88.0	62.4	52.7
1.87	319.1	300.1	259.9	206.0	151.1	118.3	84.5	60.5	50.5
1.90	263.1	252.5	226.1	186.0	138.4	109.9	79.4	57.7	47.2

Features

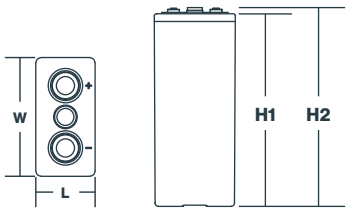
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

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

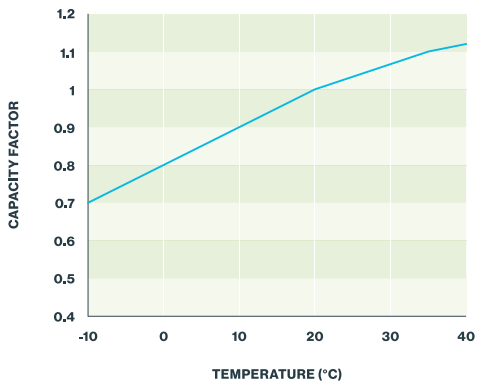
Dimensions and weight

Length	126 mm
Width	208 mm
Height (H1)	367 mm
Total height (H2)	392 mm
Dry weight	15.5 kg
Filled weight	21.3 kg

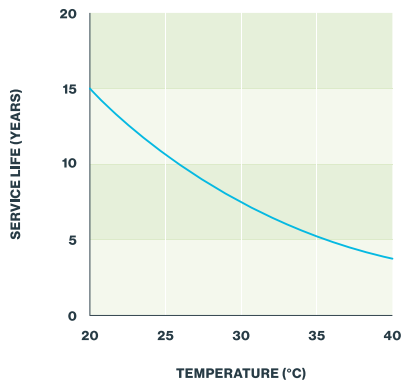


Compliant with IEC60896-11

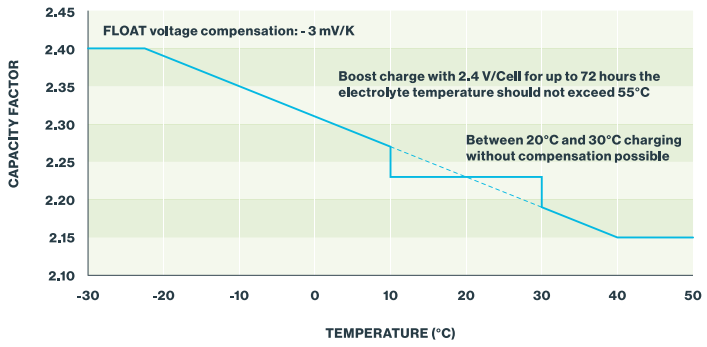
Capacity factor vs. Temperature - discharge current I_{10}



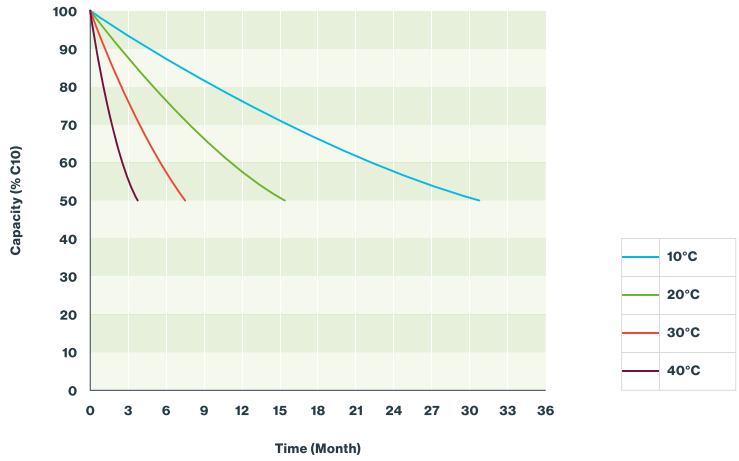
Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge



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