

06OPzV0420

(2V 500Ah @ 10hr)

Eternity Technologies valve regulated lead-acid batteries for the standby power market. With an innovative Gel-technology design Eternity Technologies OPzV batteries have a reliable maintenance-free and leakage-free construction.

Performance characteristics

Nominal Voltage 2V
 Number of cells 1
 Design Life 20 years

Nominal Capacity 20°C (68°F)

10 hour rate (50A, 1.8V) 500Ah
 5 hour rate (97A, 1.75V) 485Ah
 1 hour rate (287A, 1.6V) 287Ah

Internal Resistance

Fully Charged Battery 20°C (68°F) 0.54mOhm

Self-Discharge

2% of capacity declined per month at 20°C (average)

Operating Temperature Range

-20°C to +55°C

Maximum Discharge Current 20°C (68°F)

664A

Charge Methods: Constant Voltage Charge 20°C (68°F)

Cycle use 2.40V (time limited)
 Maximum charging current 250A
 Standby use 2.25V ± 1%
 Temperature compensation -5.0mV/°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	664.4	611.3	459.9	287.4	168.4	139.6	98.4	63.9	51.5
1.65	635.5	587.1	444.0	283.8	168.4	139.6	98.4	63.9	51.5
1.70	557.4	505.9	397.8	276.9	166.8	138.2	97.4	63.2	51.0
1.75	509.0	467.7	361.1	272.9	163.7	134.6	97.4	63.2	51.0
1.80	502.5	449.5	336.5	241.5	163.5	131.0	95.5	61.5	50.0
1.83	420.8	357.1	318.6	224.8	151.5	127.5	89.9	61.2	49.3
1.85	398.5	349.4	298.9	211.4	148.7	124.9	87.5	59.8	48.6
1.87	399.1	341.4	287.5	196.0	147.7	119.1	83.5	57.7	46.9
1.90	293.4	277.6	224.8	172.0	136.8	112.2	78.3	53.7	44.0

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	1076.6	990.1	762.2	506.0	309.1	260.0	186.1	122.5	98.6
1.65	1056.7	976.2	749.8	496.1	309.1	260.0	186.1	122.5	98.6
1.70	952.4	864.4	687.1	490.0	306.1	257.5	184.3	121.3	97.7
1.75	892.6	820.2	638.3	490.0	302.3	250.7	184.3	121.3	97.7
1.80	904.5	809.1	609.8	442.0	303.3	246.2	181.0	117.9	95.9
1.83	772.0	655.1	586.8	417.9	283.8	239.8	171.4	117.4	94.5
1.85	736.6	645.8	554.9	395.3	281.9	237.8	166.8	114.2	93.0
1.87	740.2	633.2	540.0	368.9	281.4	227.8	160.7	110.7	90.2
1.90	544.7	515.3	427.0	328.4	263.7	216.1	151.6	104.5	85.5



N Part of our Network Power range

Features

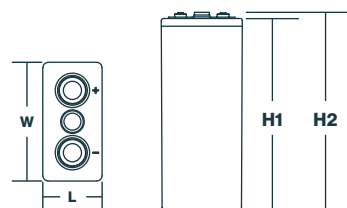
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO₂ footprint

Applications

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

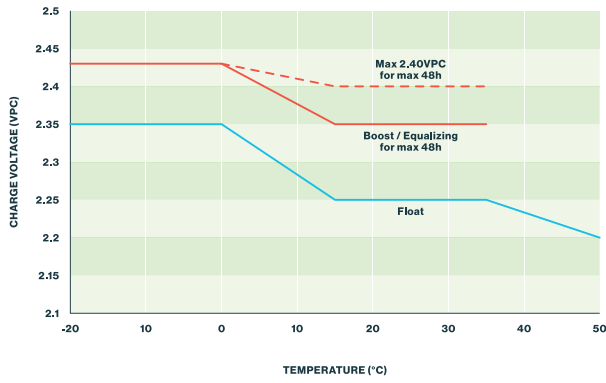
Dimensions and weight

Length 147 mm
 Width 208 mm
 Height (H1) 483.5 mm
 Total height (H2) 509 mm
 Approx. weight 36.2 kg

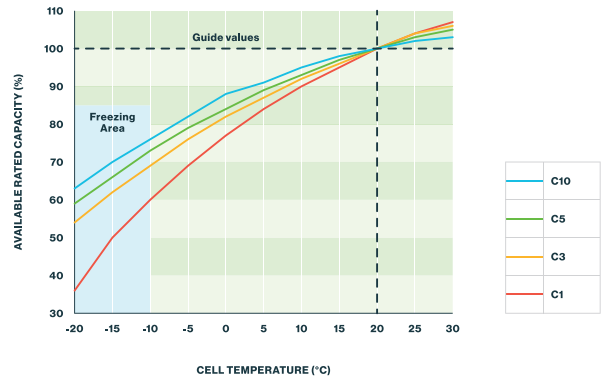


Compliant with IEC60896-21/22

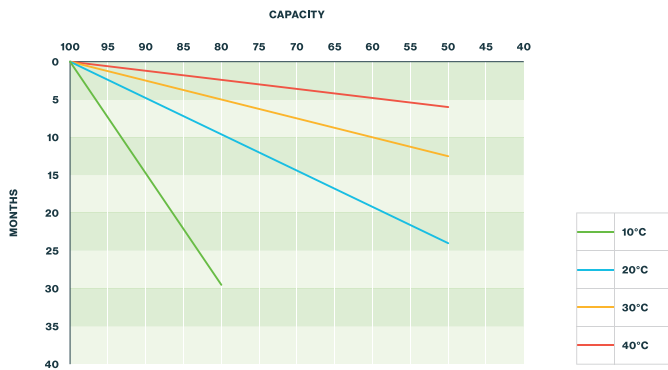
Charging voltage vs. Temperature



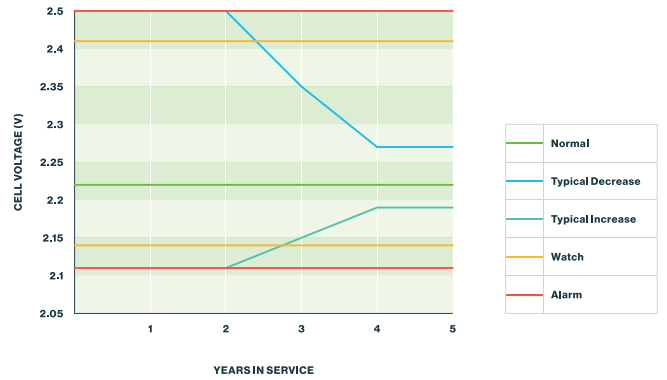
Capacity vs. Temperature



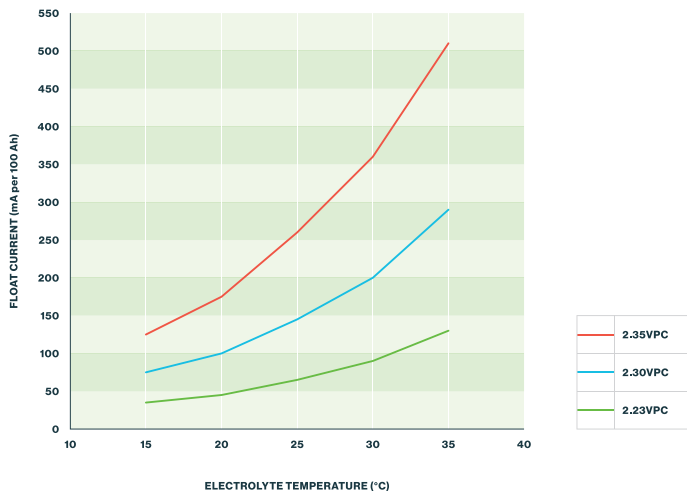
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

