

20OPzV2500

(2V 2740Ah @ 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 (274A, 1.8V)	2740Ah
5 hour rate (482A, 1.75V)	2410Ah
1 hour rate (1607A, 1.6V)	1607Ah

Internal Resistance

Fully Charged Battery 20°C (68°F)	0.16mOhm
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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)

2591A

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

Cycle use	2.40V (time limited)
Maximum charging current	1370A
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	2591.1	2354.8	2093.5	1606.9	939.7	764.5	508.8	319.7	278.0
1.65	2107.4	2023.9	1857.1	1534.6	917.4	750.6	503.2	319.7	278.0
1.70	1956.4	1857.7	1712.5	1441.2	904.2	742.5	495.9	312.4	274.0
1.75	1698.8	1646.7	1550.8	1268.6	819.3	709.7	482.2	312.4	274.0
1.80	1602.9	1501.5	1348.1	1082.3	780.9	665.8	452.1	309.6	274.0
1.83	1414.0	1356.8	1189.0	898.4	742.3	626.4	436.6	298.9	256.9
1.85	1296.5	1222.2	1026.3	818.1	699.1	572.7	401.6	285.1	247.9
1.87	1044.4	1025.0	995.8	791.8	670.4	548.9	381.3	274.5	242.9
1.90	867.3	840.7	803.0	729.8	590.0	476.9	348.2	255.1	221.8

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	4160.1	3780.7	3396.2	2678.5	1686.3	1403.4	958.2	611.4	533.9
1.65	3485.8	3347.8	3093.3	2605.1	1646.4	1377.9	947.8	611.4	533.9
1.70	3332.1	3164.0	2931.0	2499.0	1613.6	1367.2	934.1	597.3	526.2
1.75	2976.7	2885.5	2725.5	2251.0	1480.5	1302.6	908.3	597.3	526.2
1.80	2902.7	2719.1	2433.4	1967.4	1435.8	1237.1	849.2	589.9	526.2
1.83	2603.9	2498.7	2179.8	1654.8	1380.9	1173.8	828.2	571.1	491.7
1.85	2415.3	2276.8	1902.0	1523.2	1309.9	1081.9	765.6	548.5	477.6
1.87	1964.1	1927.6	1865.1	1487.3	1268.1	1043.3	730.8	530.9	469.2
1.90	1660.8	1609.8	1547.2	1391.9	1130.9	917.3	675.2	494.9	433.2



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

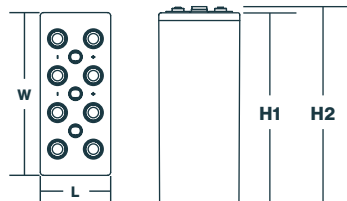
- UPS Systems

- Emergency Lighting

- Electrical Switching

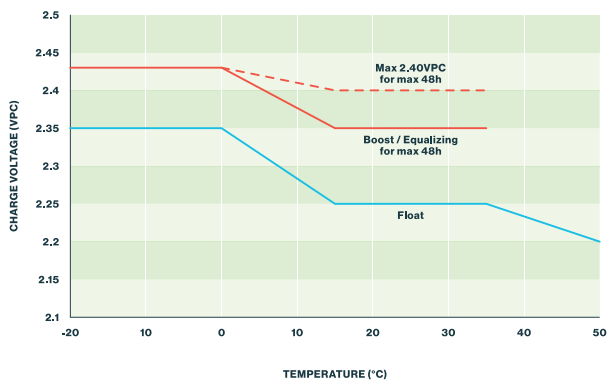
Dimensions and weight

Length	214 mm
Width	489 mm
Height (H1)	782 mm
Total height (H2)	807 mm
Approx. weight	190.1kg

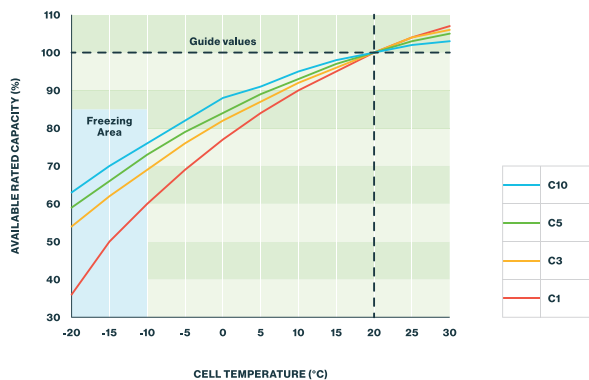


Compliant with IEC60896-21/22

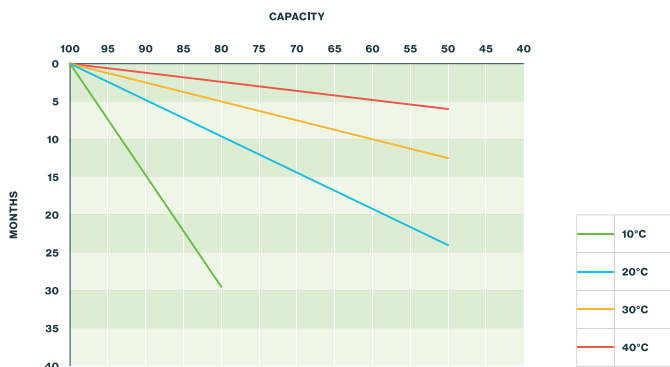
Charging voltage vs. Temperature



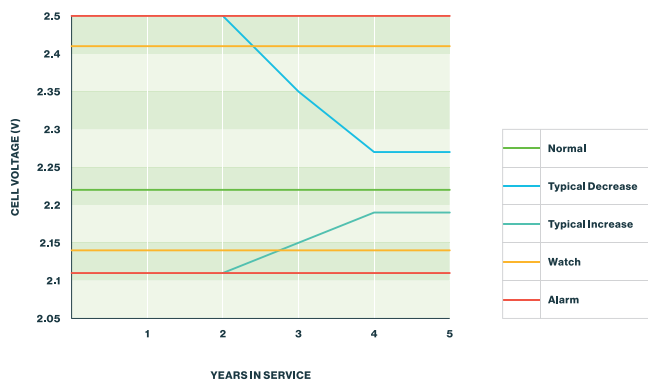
Capacity vs. Temperature



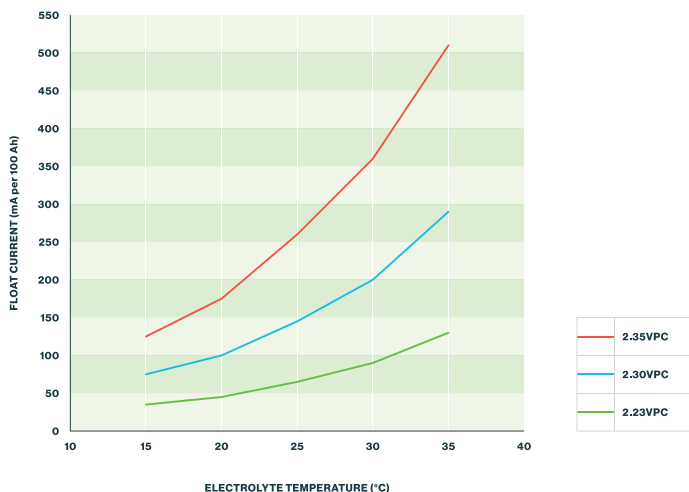
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

