

24OPzV3000

(2V 3300Ah @ 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 (330A, 1.8V) 3300Ah
 5 hour rate (581A, 1.75V) 2905Ah
 1 hour rate (1931A, 1.6V) 1931Ah

Internal Resistance

Fully Charged Battery 20°C (68°F) 0.11mOhm

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)

3113A

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

Cycle use 2.40V (time limited)
 Maximum charging current 1650A
 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	3113.1	2829.2	2515.2	1930.7	1129.0	918.6	611.3	384.1	334.0
1.65	2531.9	2431.7	2231.3	1843.8	1102.3	901.9	604.6	384.1	334.0
1.70	2356.2	2237.4	2062.5	1735.8	1089.0	894.3	597.3	376.2	330.0
1.75	2046.0	1983.3	1867.8	1527.9	986.7	854.7	580.8	376.2	330.0
1.80	1930.5	1808.4	1623.6	1303.5	940.5	801.9	544.5	372.9	330.0
1.83	1699.8	1631.2	1429.3	1080.0	892.3	753.0	524.9	359.3	308.9
1.85	1557.5	1468.2	1232.9	982.8	839.8	687.9	482.4	342.5	297.8
1.87	1258.9	1235.5	1200.4	954.4	808.1	661.7	459.7	330.8	292.8
1.90	1046.4	1014.3	968.8	880.5	711.9	575.4	420.2	307.8	267.6

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	4998.5	4542.6	4079.5	3214.1	2023.8	1684.8	1151.3	733.2	640.7
1.65	4187.3	4021.5	3715.9	3129.4	1975.9	1654.1	1138.7	733.2	640.7
1.70	4011.4	3809.1	3529.7	3009.6	1940.9	1645.1	1125.0	718.0	632.9
1.75	3585.1	3475.3	3283.1	2709.4	1781.4	1568.5	1093.9	718.0	632.9
1.80	3500.3	3278.9	2929.4	2367.3	1729.6	1489.8	1023.6	710.5	632.9
1.83	3137.8	3011.1	2620.5	1988.8	1661.0	1411.7	995.2	688.8	592.4
1.85	2910.4	2743.5	2285.1	1828.7	1574.4	1298.9	920.2	659.2	572.3
1.87	2370.0	2325.9	2251.2	1794.7	1528.9	1257.7	882.2	640.5	566.7
1.90	1992.8	1931.6	1871.2	1677.7	1363.3	1107.6	812.7	598.0	521.7



N Part of our Network Power range

Features

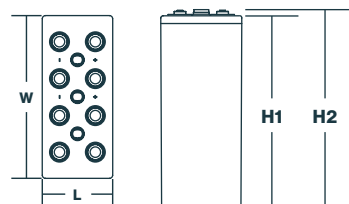
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low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

Applications

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

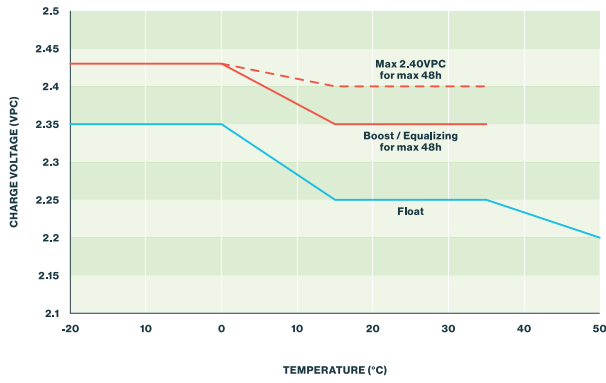
Dimensions and weight

Length 214 mm
 Width 578 mm
 Height (H1) 784 mm
 Total height (H2) 809 mm
 Approx. weight 226.2 kg

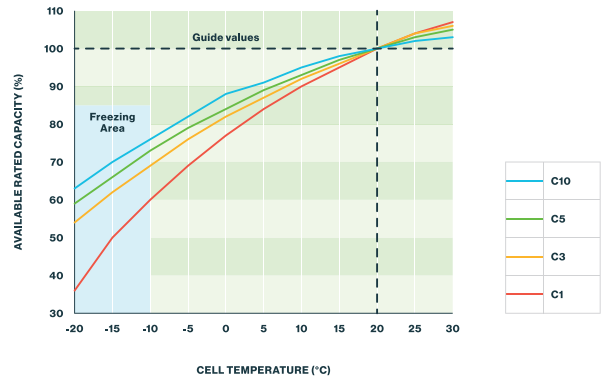


Compliant with IEC60896-21/22

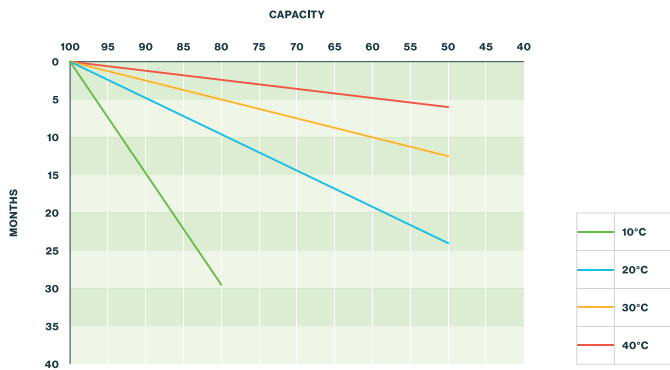
Charging voltage vs. Temperature



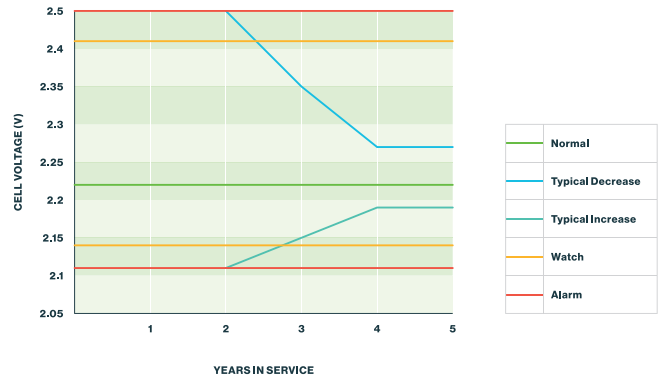
Capacity vs. Temperature



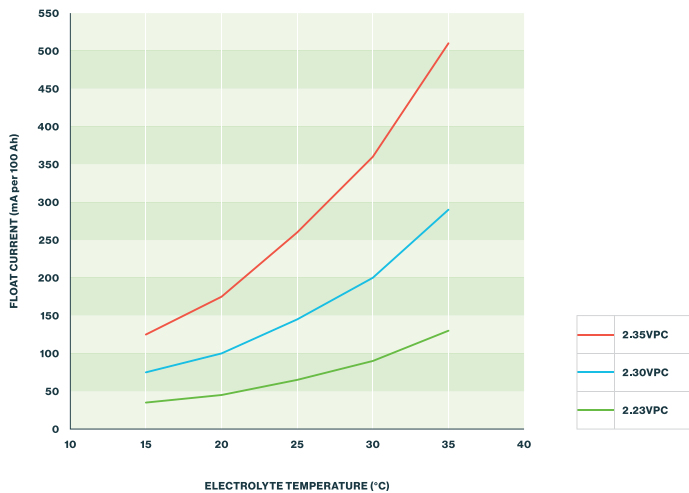
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

