

07OPzV0490

(2V 580Ah @ 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 (58A, 1.8V) 580Ah
 5 hour rate (113A, 1.75V) 565Ah
 1 hour rate (334A, 1.6V) 334Ah

Internal Resistance

Fully Charged Battery 20°C (68°F) 0.46mOhm

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)

771A

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

Cycle use 2.40V (time limited)
 Maximum charging current 290A
 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	771.3	709.8	534.0	333.6	195.5	162.0	114.2	74.1	59.8
1.65	737.9	681.6	515.4	329.5	195.5	162.0	114.2	74.1	59.8
1.70	653.0	592.6	466.0	324.4	195.3	161.9	114.1	74.1	59.7
1.75	590.4	542.5	418.9	316.5	189.9	156.2	113.0	73.4	59.2
1.80	582.9	521.4	390.3	280.1	189.7	152.0	110.8	71.3	58.0
1.83	488.3	414.4	369.9	260.9	175.8	147.9	104.4	71.0	57.2
1.85	462.5	405.6	346.9	245.4	172.6	145.0	101.5	69.4	56.4
1.87	463.0	396.1	333.5	227.4	171.4	138.2	96.9	66.9	54.4
1.90	341.0	322.6	261.2	199.9	159.0	130.4	91.0	62.4	51.1

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	1248.0	1148.4	885.6	586.7	358.5	301.7	215.9	142.2	114.4
1.65	1226.4	1133.0	870.7	576.6	358.5	301.7	215.9	142.2	114.4
1.70	1116.1	1013.0	804.2	573.1	358.1	301.5	215.9	142.1	114.3
1.75	1035.8	951.7	740.8	569.7	349.8	289.6	213.6	140.7	113.1
1.80	1051.3	940.4	706.1	512.7	351.5	285.9	209.7	135.9	111.1
1.83	894.1	758.7	679.2	484.5	329.2	278.4	198.7	136.1	110.3
1.85	856.9	751.4	644.6	457.7	326.4	274.5	194.5	133.5	108.0
1.87	862.5	737.8	625.6	429.5	326.4	265.5	186.5	128.8	105.5
1.90	637.6	603.2	497.3	380.8	305.7	251.7	176.3	120.7	100.0



N Part of our Network Power range

Features

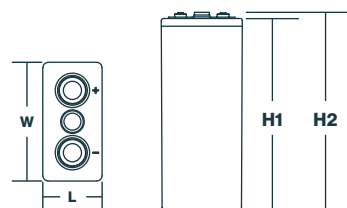
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low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

Applications

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

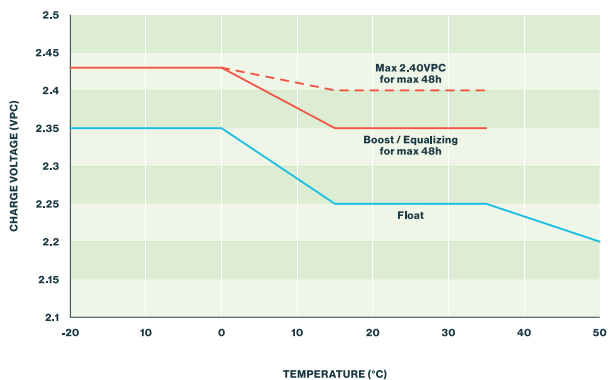
Dimensions and weight

Length 168 mm
 Width 208 mm
 Height (H1) 483.5 mm
 Total height (H2) 509 mm
 Approx. weight 41.7 kg

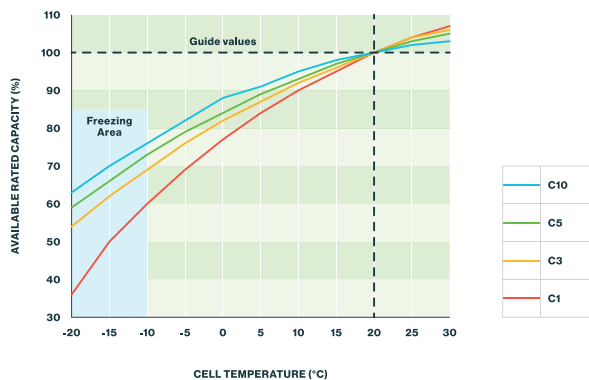


Compliant with IEC60896-21/22

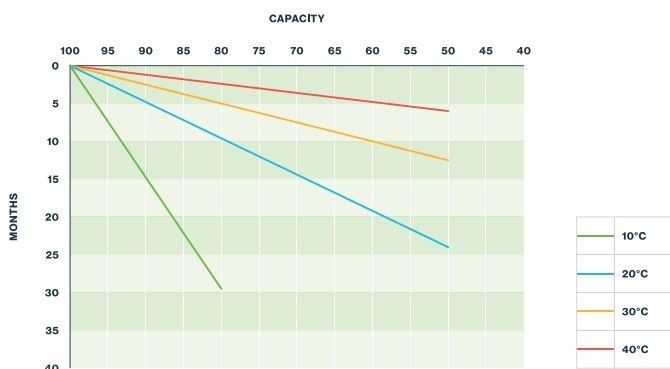
Charging voltage vs. Temperature



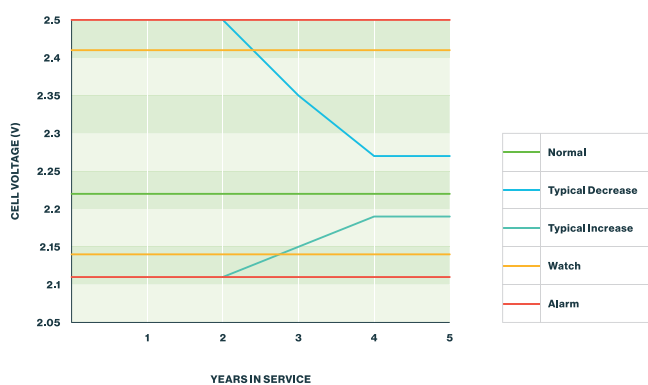
Capacity vs. Temperature



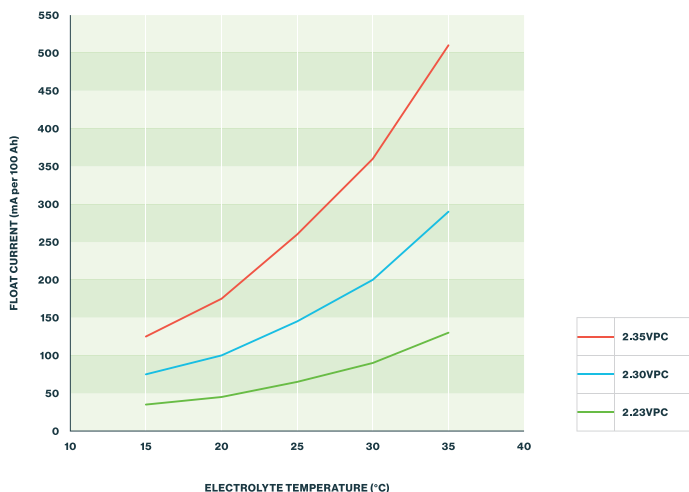
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

