

04OPzV0200

(2V 225Ah @ 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 (22.5A, 1.8V) 225Ah
 5 hour rate (41A, 1.75V) 205Ah
 1 hour rate (124A, 1.6V) 124Ah

Internal Resistance

Fully Charged Battery 20°C (68°F) 0.95mOhm

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)

349A

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

Cycle use 2.40V (time limited)
 Maximum charging current 112.5A
 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	348.8	303.4	224.6	124.4	83.4	61.9	40.8	27.6	23.2
1.65	315.4	280.0	214.6	124.4	83.4	61.9	40.8	27.6	23.2
1.70	286.2	260.7	203.5	119.6	82.3	61.9	40.8	27.6	23.2
1.75	257.2	241.0	179.6	115.4	80.6	61.0	40.8	27.6	23.2
1.80	232.0	207.0	157.1	99.9	74.5	58.1	39.2	26.6	22.5
1.83	209.0	182.0	148.1	95.2	71.4	54.2	38.1	26.1	22.3
1.85	194.1	171.0	137.0	91.6	68.3	52.0	36.2	24.8	21.4
1.87	173.0	156.0	124.0	83.8	64.8	49.6	34.9	24.4	20.5
1.90	144	126.1	107.1	76.3	59.7	45.8	31.1	21.4	18.3

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	570.5	496.2	381.2	222.7	154.0	115.8	77.5	52.4	44.4
1.65	527.6	468.3	367.7	221.8	154.0	115.8	77.5	52.4	44.4
1.70	492.3	448.4	356.1	215.1	151.4	115.8	77.5	52.4	44.4
1.75	452.5	424.0	320.0	208.1	149.1	114.4	76.7	52.9	44.4
1.80	418.9	373.5	286.4	183.6	139.3	109.7	74.9	50.6	42.9
1.83	383.3	333.8	272.9	178.3	133.9	102.1	72.4	49.4	42.7
1.85	359.4	316.6	255.0	171.4	129.2	99.4	69.6	47.8	40.3
1.87	323.8	292.0	232.4	158.1	122.8	94.8	67.3	47.1	39.3
1.90	274.5	240.3	203.5	146.2	114.7	87.8	59.9	41.2	35.2



N Part of our Network Power range

Features

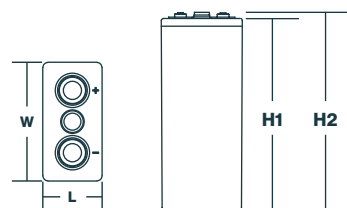
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low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

Applications

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

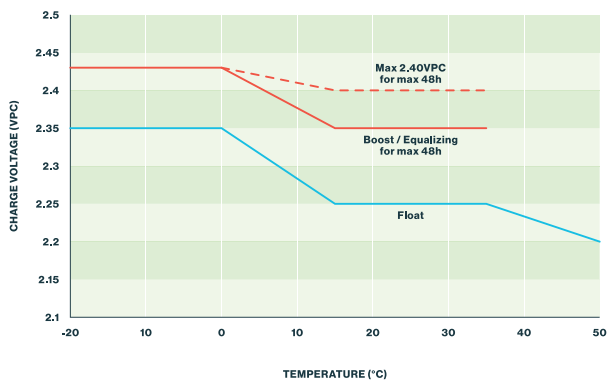
Dimensions and weight

Length 105 mm
 Width 208 mm
 Height (H1) 367 mm
 Total height (H2) 392 mm
 Approx. weight 18.4 kg

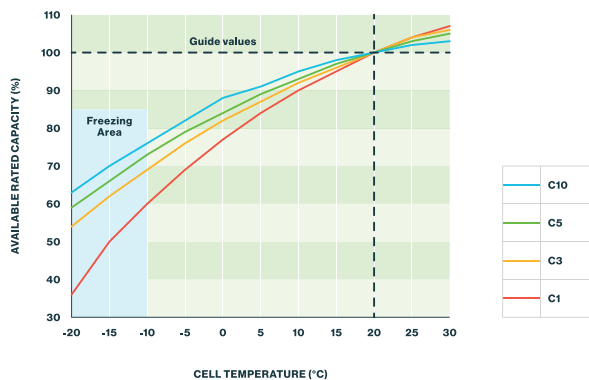


Compliant with IEC60896-21/22

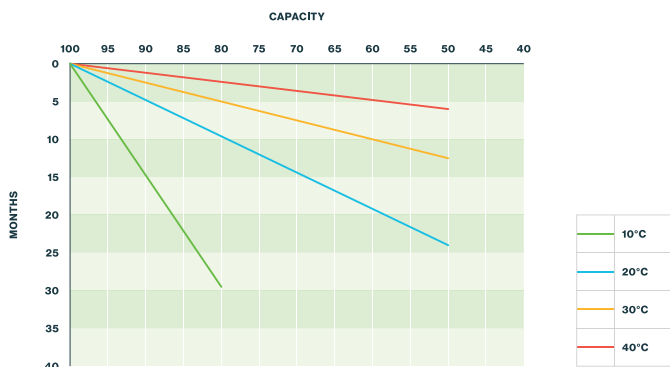
Charging voltage vs. Temperature



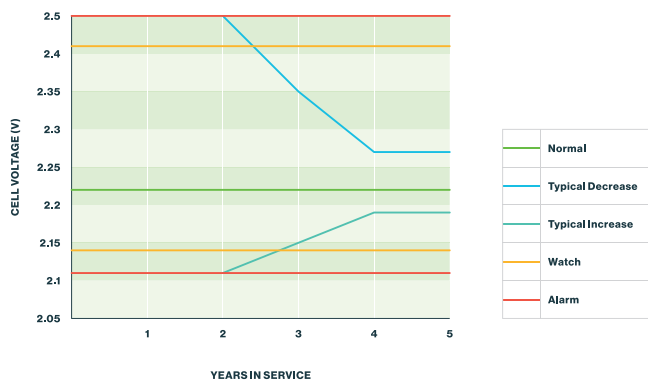
Capacity vs. Temperature



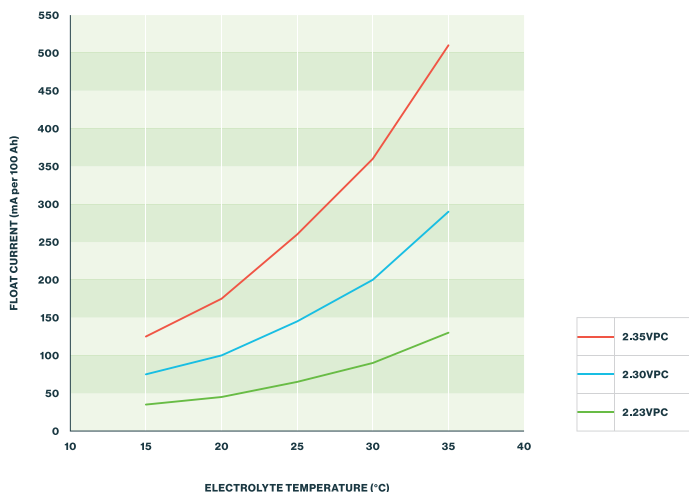
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

