

# 16OPzV2000

## (2V 2200Ah @ 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 (220A, 1.8V)	2200Ah
5 hour rate (387A, 1.75V)	1935Ah
1 hour rate (1283A, 1.6V)	1283Ah

#### Internal Resistance

Fully Charged Battery 20°C (68°F)	0.21mOhm
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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)

2069A

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

Cycle use	2.40V (time limited)
Maximum charging current	1100A
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	2069.1	1880.4	1671.7	1283.2	750.4	610.5	406.3	255.3	222.0
1.65	1682.8	1616.2	1483.0	1225.5	732.6	599.4	401.8	255.3	222.0
1.70	1570.8	1491.6	1375.0	1157.2	726.0	596.2	398.2	250.8	220.0
1.75	1364.0	1322.2	1245.2	1018.6	657.8	569.8	387.2	250.8	220.0
1.80	1287.0	1205.6	1082.4	869.0	627.0	534.6	363.0	248.6	220.0
1.83	1133.3	1087.6	953.0	720.1	594.9	502.1	350.0	239.6	205.9
1.85	1035.0	975.6	819.3	653.1	558.1	457.1	320.6	227.6	197.9
1.87	838.0	822.4	799.0	635.3	537.9	440.4	306.0	220.2	194.9
1.90	695.2	673.9	643.7	585.0	473.0	382.3	279.2	204.5	177.8

#### 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	3322.3	3019.3	2712.7	2143.0	1348.8	1122.1	765.3	488.6	427.2
1.65	2784.2	2674.0	2471.4	2080.8	1316.9	1101.7	756.9	488.6	427.2
1.70	2674.0	2539.1	2354.0	2006.8	1296.2	1097.2	750.0	480.0	423.3
1.75	2388.5	2315.3	2189.3	1808.4	1189.3	1047.0	729.3	480.0	423.3
1.80	2322.4	2175.6	1954.3	1579.4	1152.4	993.3	682.9	473.7	423.3
1.83	2085.0	2000.8	1748.1	1326.5	1107.6	942.0	665.0	457.4	394.7
1.85	1922.0	1811.8	1517.6	1215.9	1045.6	864.4	610.7	437.5	381.7
1.87	1573.0	1543.7	1495.1	1194.8	1018.0	837.9	587.0	425.4	377.3
1.90	1325.6	1284.9	1233.6	1116.2	906.5	736.5	541.1	397.7	347.3



**N** Part of our Network Power range

### Features

- High capacity density

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- Robust tubular positive electrode design, compliant with DIN 40742

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- Low self discharge rate allows for up to 2 years shelf life

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- Operating temperature -20°C to +55°C

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- 20 year float life at 20°C (68°F)

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- EUROBAT design life: Long Life > 12 years

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- Fully recyclable with low CO<sub>2</sub> footprint

### Applications

- Telecommunications/ Mobile Phone Stations

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- Traffic Systems

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- UPS Systems

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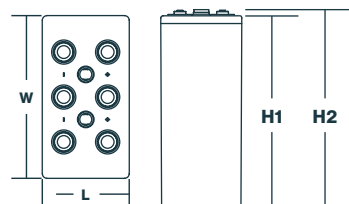
- Emergency Lighting

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- Electrical Switching

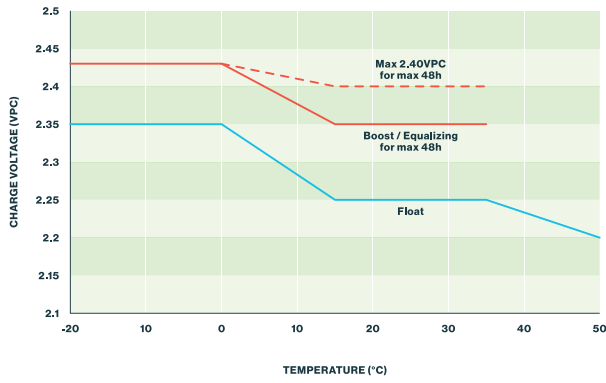
### Dimensions and weight

Length	215 mm
Width	400 mm
Height (H1)	784 mm
Total height (H2)	809 mm
Approx. weight	155.6 kg

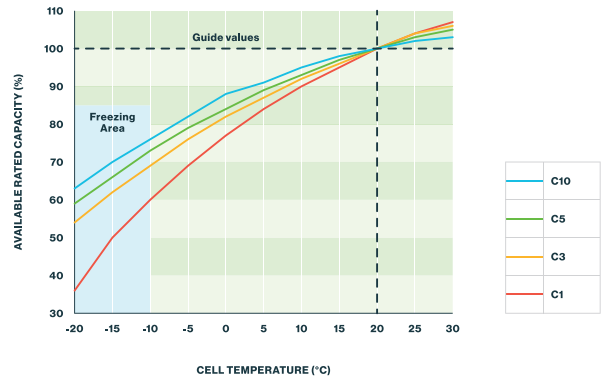


**Compliant with IEC60896-21/22**

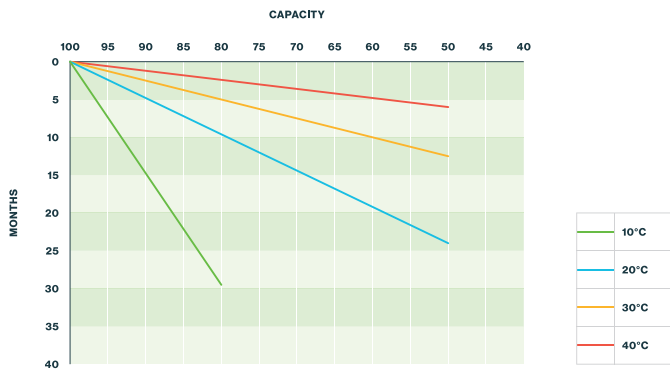
### Charging voltage vs. Temperature



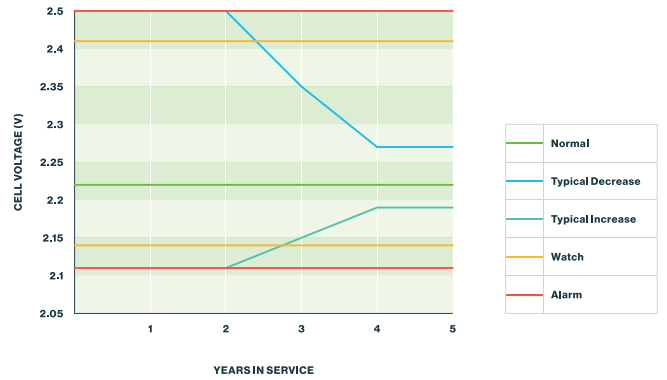
### Capacity vs. Temperature



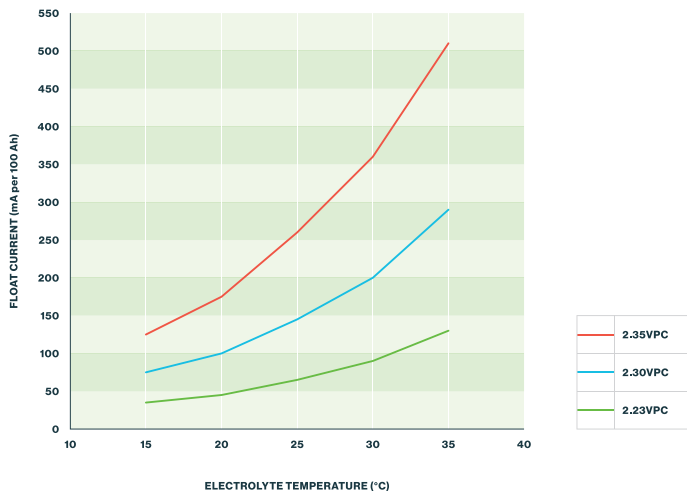
### Self discharge at different temperatures



### Float voltage deviation vs. Years in service



### Float current: Residual charge current



### Storage: Determine the state of charge

