

# 10OPzV1000

## (2V 1185Ah @ 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 (119A, 1.8V) 1250Ah  
 5 hour rate (215A, 1.75V) 1074Ah  
 1 hour rate (704A, 1.6V) 704Ah

#### Internal Resistance

Fully Charged Battery 20°C (68°F) 0.33mOhm

#### 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)

1267A

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

Cycle use 2.40V (time limited)  
 Maximum charging current 593A  
 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	1266.9	1236.4	1019.2	704.3	412.5	314.9	218.5	148.9	122.1
1.65	1136.3	1121.7	938.6	675.0	412.5	314.9	218.5	148.9	122.1
1.70	1030.1	991.1	849.5	633.5	407.7	314.9	218.5	148.9	122.1
1.75	891.0	848.3	738.4	529.7	382.0	308.8	214.8	146.5	122.1
1.80	772.6	724.0	613.8	496.5	359.1	292.7	206.2	141.0	118.5
1.83	661.3	643.1	582.0	461.6	352.6	280.0	199.7	138.6	112.8
1.85	635.1	586.1	536.0	429.2	319.2	262.6	189.6	130.7	108.9
1.87	535.4	521.9	486.5	394.8	309.4	249.0	179.2	124.0	104.2
1.90	422.4	411.9	387.0	341.2	265.7	228.4	160.5	113.7	95.6

#### 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	2041.0	1991.0	1670.0	1203.0	748.0	582.0	412.0	284.0	233.0
1.65	1883.0	1859.0	1574.0	1164.0	748.0	582.0	412.0	284.0	233.0
1.70	1757.0	1690.0	1460.0	1108.0	740.0	582.0	412.0	284.0	233.0
1.75	1562.0	1487.0	1302.0	946.0	694.0	571.0	405.0	280.0	233.0
1.80	1393.0	1306.0	1110.0	906.0	664.0	548.0	391.0	270.0	225.0
1.83	1212.0	1178.0	1068.0	853.0	659.0	528.0	380.0	265.0	217.0
1.85	1184.0	1092.0	996.0	801.0	601.0	498.0	363.0	251.0	210.0
1.87	1008.0	982.0	912.0	744.0	586.0	474.0	346.0	240.0	202.0
1.90	806.0	786.0	735.0	650.0	510.0	441.0	311.0	221.0	186.0



**N** Part of our Network Power range

### Features

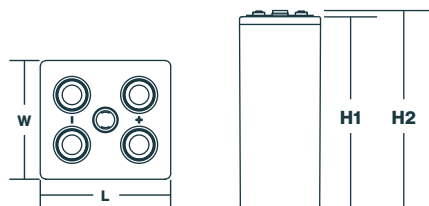
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low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

### Applications

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

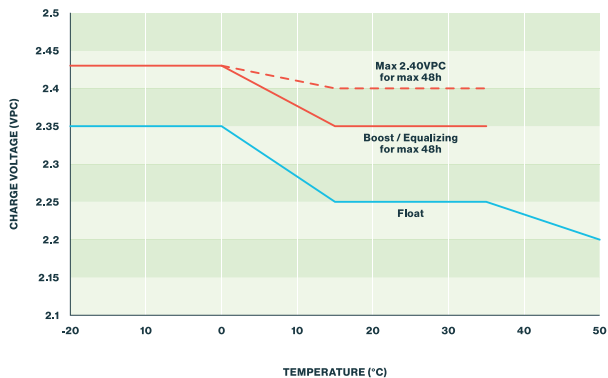
### Dimensions and weight

Length 212 mm  
 Width 235 mm  
 Height (H1) 659 mm  
 Total height (H2) 684 mm  
 Approx. weight 81.7 kg

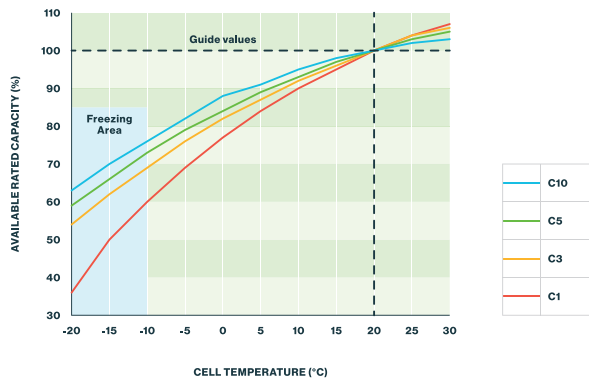


Compliant with IEC60896-21/22

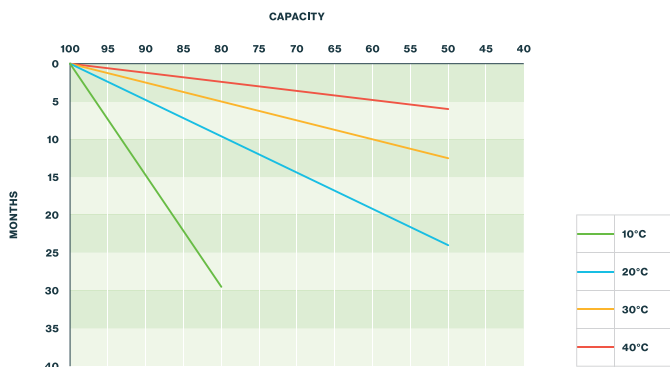
### Charging voltage vs. Temperature



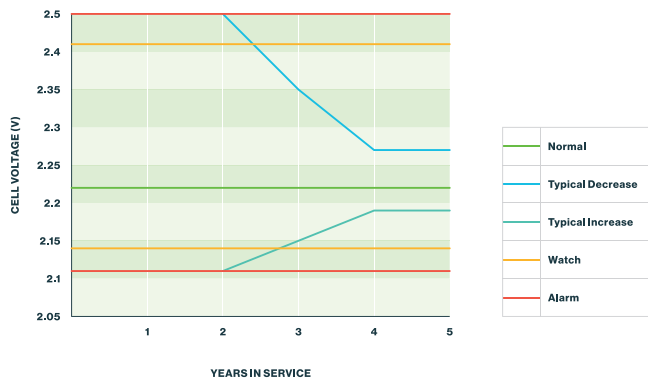
### Capacity vs. Temperature



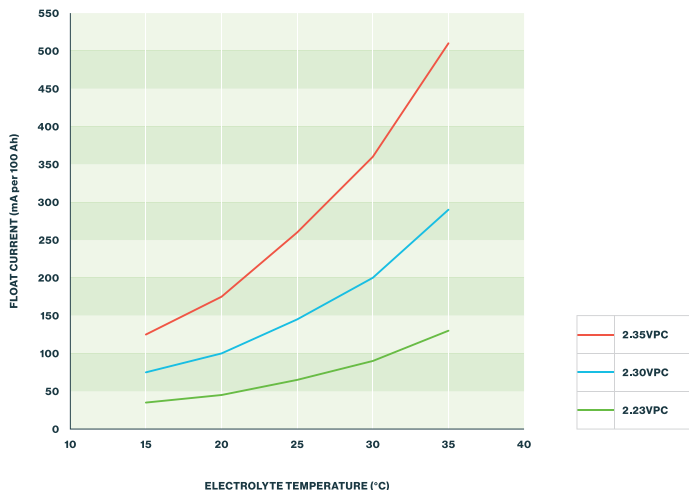
### Self discharge at different temperatures



### Float voltage deviation vs. Years in service



### Float current: Residual charge current



### Storage: Determine the state of charge

