

# 08OPzV0800

## (2V 950Ah @ 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 (95A, 1.8V)	1010Ah
5 hour rate (173A, 1.75V)	861Ah
1 hour rate (565A, 1.6V)	565Ah

#### Internal Resistance

Fully Charged Battery 20°C (68°F)	0.39mOhm
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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)

1016A

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

Cycle use	2.40V (time limited)
Maximum charging current	475A
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	1015.7	991.2	817.0	564.6	330.7	252.5	175.2	119.4	97.9
1.65	911.0	899.2	752.5	541.1	330.7	252.5	175.2	119.4	97.9
1.70	825.9	794.5	681.0	507.8	326.8	252.5	175.2	119.4	97.9
1.75	714.3	680.1	592.0	424.7	306.3	247.6	172.2	117.4	97.9
1.80	619.4	580.5	492.1	398.1	287.9	234.7	165.3	113.1	95.0
1.83	529.2	514.7	465.7	369.4	282.2	224.1	159.8	110.9	90.2
1.85	507.8	468.6	428.5	343.2	255.2	209.9	151.6	104.5	87.1
1.87	427.6	416.8	388.5	315.3	247.1	198.8	143.1	99.0	83.2
1.90	340.8	332.3	312.3	275.3	214.3	184.3	129.5	91.8	77.1

#### 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	1637.0	1598.0	1339.0	966.0	600.0	467.0	330.0	227.0	186.0
1.65	1509.0	1490.0	1263.0	934.0	600.0	467.0	330.0	227.0	186.0
1.70	1409.0	1355.0	1171.0	890.0	593.0	467.0	330.0	227.0	186.0
1.75	1253.0	1193.0	1044.0	759.0	558.0	459.0	325.0	224.0	186.0
1.80	1117.0	1047.0	890.0	726.0	532.0	438.0	313.0	215.0	182.0
1.83	969.0	942.0	855.0	681.0	527.0	421.0	304.0	212.0	173.0
1.85	945.0	872.0	795.0	641.0	481.0	398.0	289.0	202.0	167.0
1.87	802.0	782.0	729.0	594.0	468.0	380.0	275.0	192.0	161.0
1.90	649.0	633.0	593.0	525.0	411.0	357.0	252.0	179.0	150.0



**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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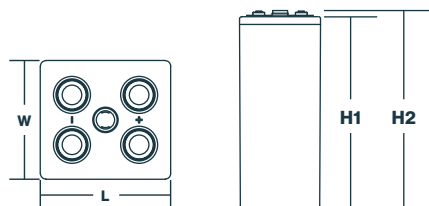
- Emergency Lighting

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- Electrical Switching

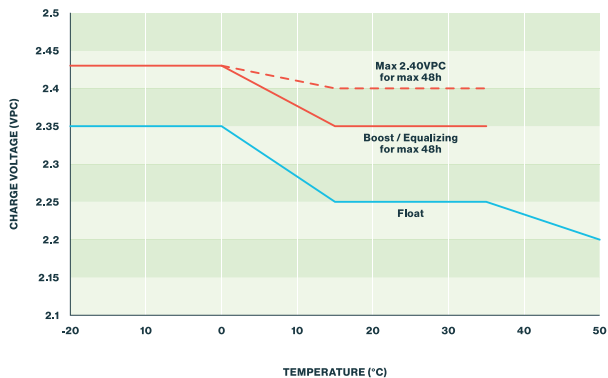
### Dimensions and weight

Length	212 mm
Width	193 mm
Height (H1)	657 mm
Total height (H2)	682 mm
Approx. weight	66.3 kg

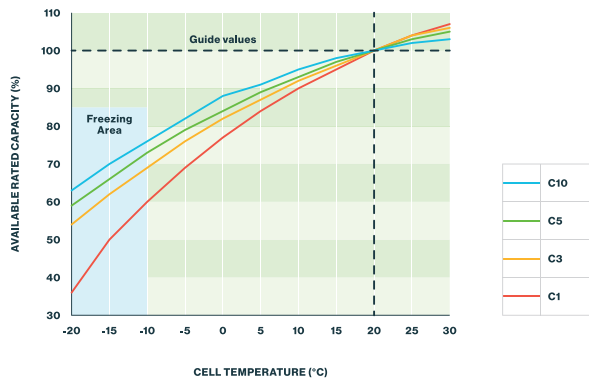


Compliant with IEC60896-21/22

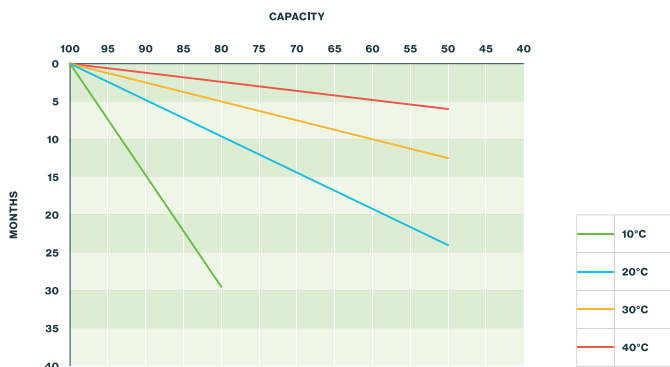
### Charging voltage vs. Temperature



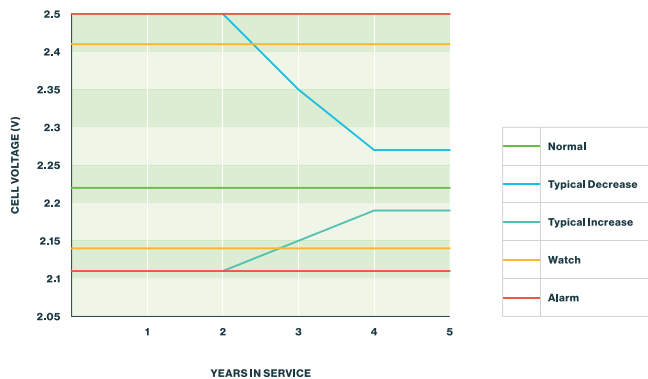
### Capacity vs. Temperature



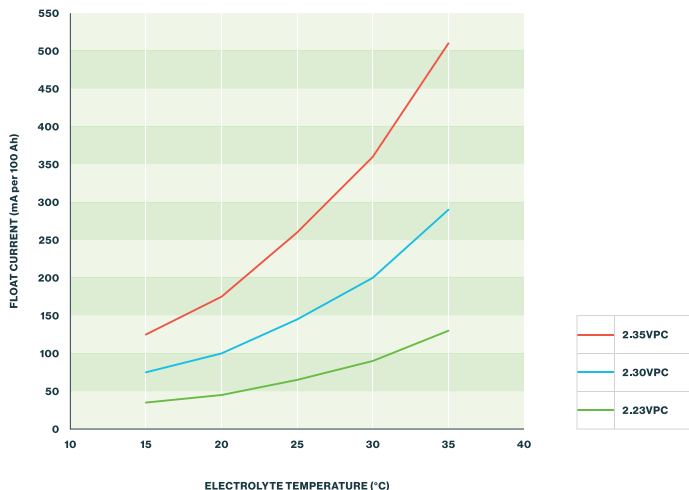
### Self discharge at different temperatures



### Float voltage deviation vs. Years in service



### Float current: Residual charge current



### Storage: Determine the state of charge

