

# 08OPzS0800

## (2V 920Ah @ 10hr)

Eternity Technologies vented lead-acid batteries for the standby power market. Eternity Technologies OPzS batteries have optimised design resulting in a low maintenance, reliable energy storage solution for critical and unstable conditions.

### Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
<b>Nominal Capacity 20°C (68°F)</b>	
10 hour rate (92A, 1.8V)	920Ah
5 hour rate (159A, 1.75V)	793.5Ah
1 hour rate (530A, 1.6V)	530Ah
<b>Internal Resistance</b>	
Fully Charged Battery 20°C (68°F)	0.33mOhm
<b>Electrolyte</b>	
Nominal S.G at 20°C = 1.240kg/l	
<b>Operating Temperature Range</b>	
	-20°C to +55°C
<b>Maximum Discharge Current 20°C (68°F)</b>	
	1077A
<b>Charge Methods: Constant Voltage Charge 20°C (68°F)</b>	
Cycle use	2.40V (time limited)
Maximum charging current	368A
Standby use	2.25V ± 1%
Temperature compensation	-3.0mV/°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	1002.9	927.1	745.1	529.8	345.8	250.7	163.8	117.3	96.7
1.65	899.8	833.1	680.4	507.5	338.7	246.7	163.8	117.3	96.7
1.70	793.6	736.0	612.7	476.2	325.5	239.6	161.8	115.3	95.6
1.75	684.4	636.9	539.9	434.7	306.3	228.5	158.7	113.2	93.8
1.80	570.2	533.8	462.0	382.2	280.0	213.3	153.7	109.2	92.0
1.83	498.4	469.1	411.5	345.8	257.8	201.2	146.6	106.2	89.8
1.85	450.9	426.6	377.1	321.5	243.6	193.1	142.5	104.1	88.4
1.87	400.4	382.2	340.7	293.2	224.4	180.0	135.5	99.2	84.3
1.90	325.5	314.4	285.1	250.7	196.1	160.7	125.4	92.0	78.3

### 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	1642.9	1536.7	1268.8	935.2	632.9	466.1	310.4	224.4	187.0
1.65	1511.4	1410.3	1177.8	904.8	623.8	461.0	310.4	224.4	187.0
1.70	1369.9	1278.9	1081.8	860.4	604.6	448.9	308.4	221.4	185.0
1.75	1213.2	1132.3	970.5	794.6	572.2	429.7	304.3	218.4	182.0
1.80	1036.3	971.6	846.2	707.7	525.7	404.4	295.2	212.3	178.9
1.83	918.0	866.4	762.3	646.0	488.3	384.2	284.1	207.3	174.9
1.85	838.1	795.6	706.7	605.6	464.0	370.0	277.0	203.2	172.9
1.87	751.2	717.8	642.0	557.1	429.7	346.8	263.9	194.1	165.8
1.90	620.7	600.5	545.9	483.3	379.1	313.4	245.7	182.0	154.7



**N** Part of our Network Power range

### Features

- High energy density

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- Robust tubular positive electrode design, compliant with DIN 40736

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- Minimal maintenance due to low antimony alloy and large electrolyte volume

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

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- EUROBAT design life: Long Life > 12 years

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

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### Applications

- Telecommunications/ Mobile Phone Stations

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- Traffic Systems

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- UPS Systems

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- Emergency Lighting

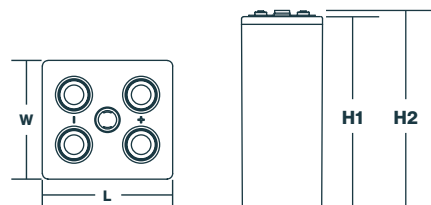
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- Electrical Switching

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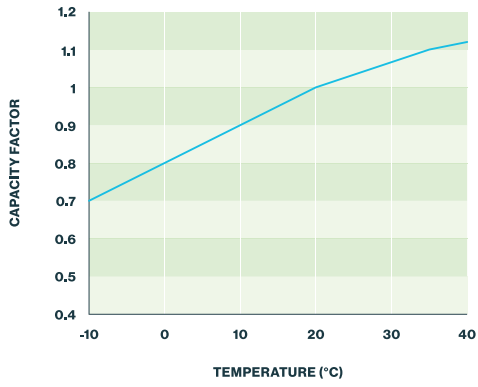
### Dimensions and weight

Length	212 mm
Width	193 mm
Height (H1)	657 mm
Total height (H2)	682 mm
Dry weight	45.0 kg
Filled weight	60.4 kg

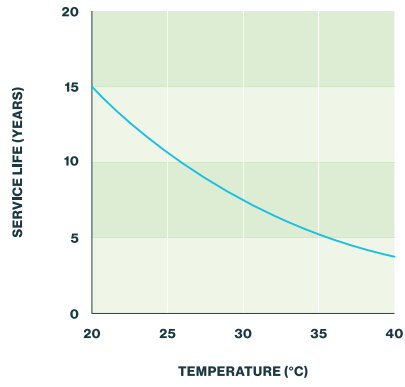


**Compliant with** IEC60896-11

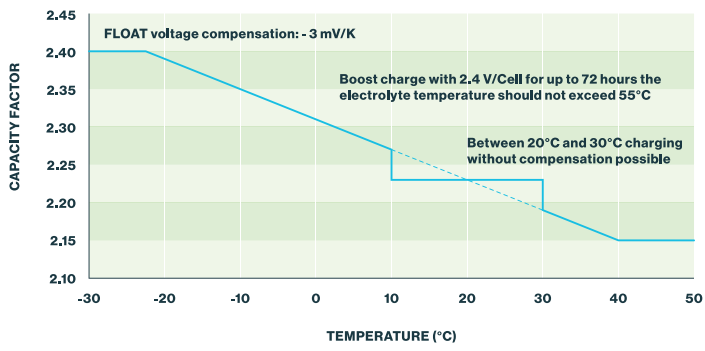
### Capacity factor vs. Temperature - discharge current $I_{10}$



### Service life vs. Temperature



### Charging voltage vs. Temperature



### Self discharge

