

# 10OPzS1000

## (2V 1150Ah @ 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

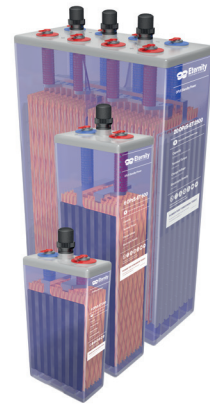
Nominal Voltage	2V
Number of cells	1
Design Life	20 years
<b>Nominal Capacity 20°C (68°F)</b>	
10 hour rate (115A, 1.8V)	1150Ah
5 hour rate (198A, 1.75V)	988.5Ah
1 hour rate (659A, 1.6V)	659Ah
<b>Internal Resistance</b>	
Fully Charged Battery 20°C (68°F)	0.27mOhm
<b>Electrolyte</b>	
Nominal S.G at 20°C = 1.240kg/l	
<b>Operating Temperature Range</b>	
	-20°C to +55°C
<b>Maximum Discharge Current 20°C (68°F)</b>	
	1281A
<b>Charge Methods: Constant Voltage Charge 20°C (68°F)</b>	
Cycle use	2.40V (time limited)
Maximum charging current	460A
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	1195.4	1124.8	912.9	658.7	429.7	307.7	202.8	146.3	121.1
1.65	1074.3	1007.8	833.2	625.4	417.6	304.6	202.8	146.3	121.1
1.70	949.3	888.7	749.5	582.1	400.5	296.6	200.7	143.2	120.0
1.75	819.1	767.7	659.7	530.6	377.3	283.5	197.7	141.2	118.0
1.80	683.9	644.6	563.9	468.1	346.0	265.3	190.7	136.2	115.0
1.83	600.2	567.9	501.4	423.7	319.8	250.2	181.6	132.1	112.0
1.85	543.7	517.5	460.0	393.4	301.6	239.1	176.5	129.1	110.0
1.87	484.2	465.0	415.6	358.1	278.4	222.9	168.5	124.1	104.9
1.90	396.4	385.4	348.0	304.6	242.1	199.7	155.4	115.0	97.8

### 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	1962.1	1866.2	1553.5	1160.1	786.8	573.0	385.4	280.4	233.0
1.65	1805.7	1709.9	1442.5	1114.7	769.7	568.9	385.4	280.4	233.0
1.70	1634.2	1543.4	1321.5	1054.2	742.5	555.8	382.3	275.4	231.0
1.75	1447.6	1366.9	1185.3	970.4	704.1	534.6	377.3	272.4	229.0
1.80	1240.8	1175.2	1034.0	867.5	649.6	503.4	366.2	264.3	223.9
1.83	1104.6	1049.1	930.1	791.9	604.3	476.1	352.1	257.2	218.9
1.85	1008.8	964.4	861.5	741.4	574.0	458.0	342.0	253.2	215.9
1.87	906.9	872.6	783.8	679.9	531.6	429.7	326.8	242.1	206.8
1.90	754.6	735.4	665.8	587.1	468.1	388.4	304.6	227.0	193.7



**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

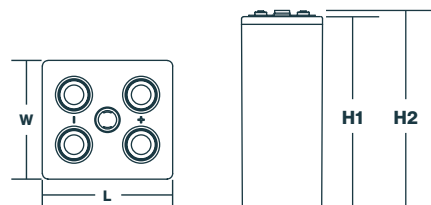
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- Electrical Switching

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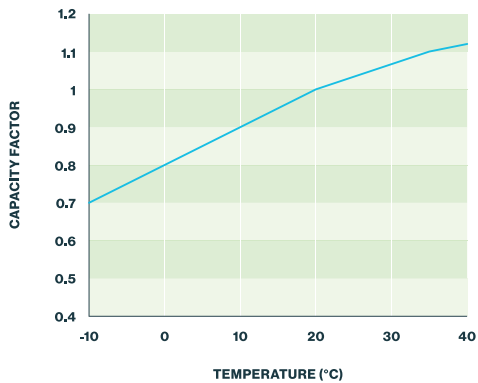
### Dimensions and weight

Length	212 mm
Width	235 mm
Height (H1)	659 mm
Total height (H2)	684 mm
Dry weight	54.5 kg
Filled weight	73.6 kg

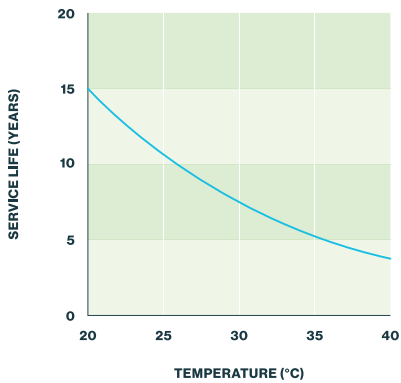


Compliant with IEC60896-11

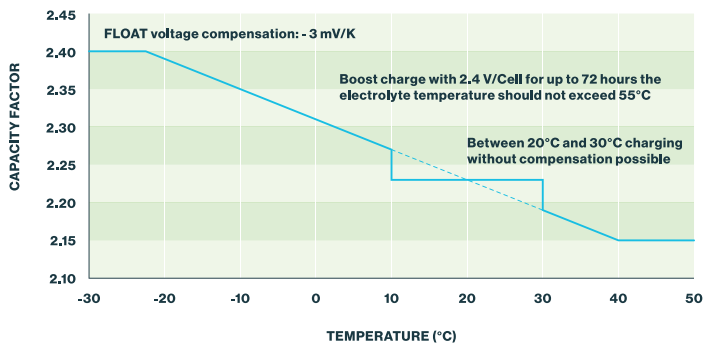
### Capacity factor vs. Temperature - discharge current $I_{10}$



### Service life vs. Temperature



### Charging voltage vs. Temperature



### Self discharge

