

20OPzS2500

(2V 2750Ah @ 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

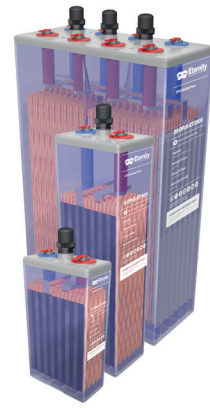
Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (275A, 1.8V)	2750Ah
5 hour rate (487A, 1.75V)	2435Ah
1 hour rate (1571A, 1.6V)	1571Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.13mOhm
Electrolyte	
Nominal S.G at 20°C = 1.240kg/l	
Operating Temperature Range	
	-20°C to +55°C
Maximum Discharge Current 20°C (68°F)	
	2676A
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	-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	2597.8	2440.6	2052.7	1571.4	1060.7	770.0	544.1	363.4	296.6
1.65	2293.3	2175.4	1851.3	1438.8	1006.7	748.4	533.3	360.4	296.6
1.70	1983.9	1895.5	1640.2	1296.4	942.9	715.0	514.6	354.6	294.6
1.75	1679.5	1615.6	1424.1	1144.2	861.3	667.9	487.1	343.8	287.8
1.80	1350.4	1321.0	1188.4	975.3	761.2	605.0	447.9	324.1	275.0
1.83	1178.6	1144.2	1041.1	865.3	687.5	555.9	418.4	307.4	262.2
1.85	1050.9	1021.4	938.9	791.6	637.4	522.5	398.8	296.6	253.4
1.87	919.3	893.8	765.1	707.1	578.5	479.3	373.2	278.9	239.6
1.90	718.9	703.2	660.0	585.4	489.1	415.4	335.9	253.4	220.0

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	4223.2	4002.2	3457.1	2681.3	1851.3	1379.9	1001.8	681.6	563.8
1.65	3830.4	3653.6	3177.2	2489.7	1777.7	1350.4	987.1	677.7	563.8
1.70	3403.1	3260.7	2862.9	2273.7	1684.4	1301.3	955.6	669.8	562.8
1.75	2956.3	2853.1	2543.8	2047.8	1561.6	1232.6	914.4	653.1	551.0
1.80	2435.7	2391.5	2170.5	1782.6	1404.5	1129.5	848.6	620.7	530.4
1.83	2155.8	2101.8	1920.1	1600.9	1281.7	1047.0	797.5	592.2	508.8
1.85	1944.6	1895.5	1748.2	1478.1	1198.2	992.0	763.1	573.6	494.0
1.87	1718.8	1669.6	1340.6	1330.8	1095.1	913.4	717.9	542.1	469.5
1.90	1365.2	1335.7	1257.1	1119.6	938.9	801.4	653.1	497.0	433.1



N Part of our Network Power range

Features

- High energy density

- Robust tubular positive electrode design, compliant with DIN 40736

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

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

- EUROBAT design life: Long Life > 12 years

- Fully recyclable with low CO₂ footprint

Applications

- Telecommunications/ Mobile Phone Stations

- Traffic Systems

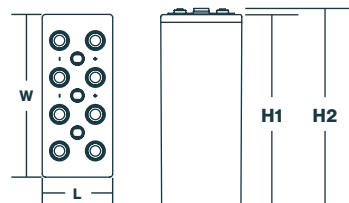
- UPS Systems

- Emergency Lighting

- Electrical Switching

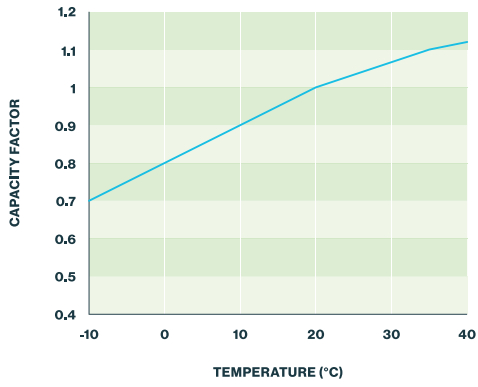
Dimensions and weight

Length	214 mm
Width	489 mm
Height (H1)	782 mm
Total height (H2)	807 mm
Dry weight	127.5 kg
Filled weight	178.8 kg

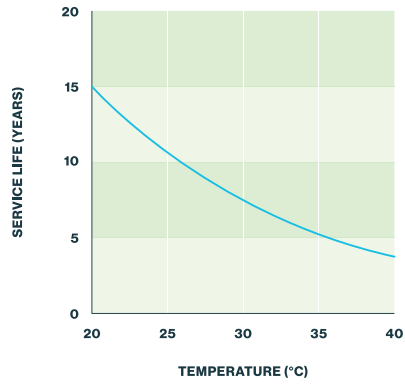


Compliant with IEC60896-11

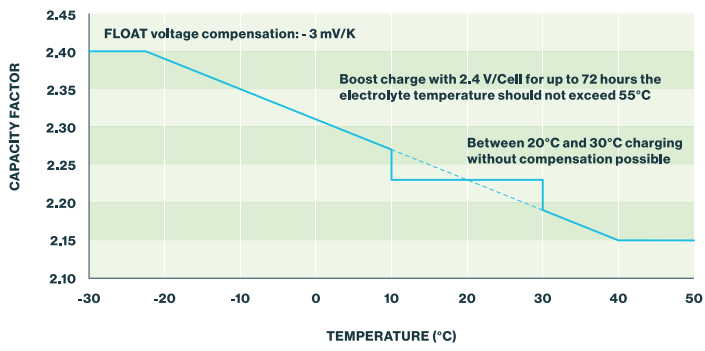
Capacity factor vs. Temperature - discharge current I_{10}



Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge

