

12OPzV1500

(2V 1650Ah @ 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 (165A, 1.8V)	1650Ah
5 hour rate (290A, 1.75V)	1450Ah
1 hour rate (965A, 1.6V)	965Ah

Internal Resistance

Fully Charged Battery 20°C (68°F)	0.25mOhm
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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)

1557A

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

Cycle use	2.40V (time limited)
Maximum charging current	825A
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	1556.6	1414.6	1257.6	965.3	564.5	459.3	305.6	192.1	167.0
1.65	1266.0	1215.8	1115.6	921.9	551.1	450.9	302.3	192.1	167.0
1.70	1178.1	1118.7	1031.3	867.9	544.5	447.2	298.7	188.1	165.0
1.75	1023.0	991.7	933.9	764.0	493.4	427.4	290.4	188.1	165.0
1.80	965.3	904.2	811.8	651.8	470.3	401.0	272.3	186.5	165.0
1.83	847.1	812.9	712.3	538.3	444.5	375.3	261.6	179.1	153.9
1.85	778.8	734.1	615.6	491.4	419.9	344.0	241.2	171.2	148.9
1.87	627.3	615.6	598.1	475.6	402.6	329.7	229.0	164.8	145.9
1.90	523.2	507.1	484.4	440.2	355.9	287.7	210.1	153.9	133.8

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	2499.2	2271.3	2039.3	1606.6	1011.9	841.8	575.6	367.0	317.3
1.65	2094.4	2011.5	1857.5	1564.2	988.0	826.5	569.3	367.0	317.3
1.70	2006.0	1904.9	1764.9	1504.8	970.0	822.0	562.5	359.5	313.5
1.75	1792.6	1737.6	1641.1	1355.6	891.5	783.3	546.9	359.5	313.5
1.80	1750.6	1639.9	1464.2	1184.1	865.2	745.4	510.3	355.2	313.5
1.83	1563.2	1500.1	1307.0	991.1	826.9	702.1	495.5	342.3	293.8
1.85	1455.2	1371.7	1143.4	913.9	786.7	648.9	459.9	329.6	285.6
1.87	1182.0	1160.0	1121.7	893.8	761.8	627.7	439.1	318.6	282.4
1.90	995.8	965.2	936.6	838.3	682.7	553.3	406.8	299.5	260.3



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 CO₂ footprint

Applications

- Telecommunications/ Mobile Phone Stations

- Traffic Systems

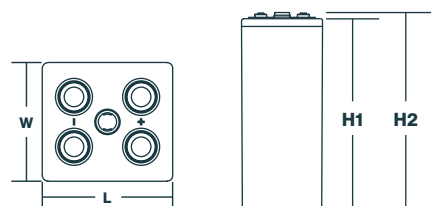
- UPS Systems

- Emergency Lighting

- Electrical Switching

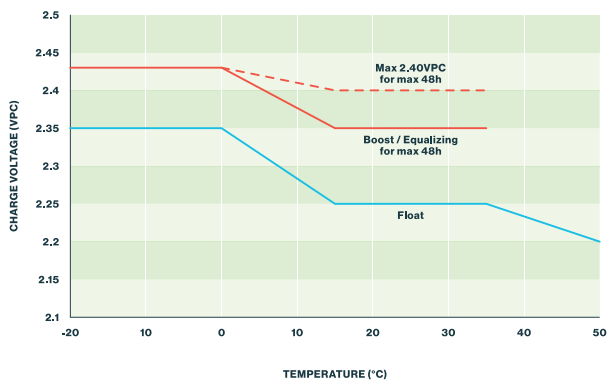
Dimensions and weight

Length	212 mm
Width	277 mm
Height (H1)	809 mm
Total height (H2)	834 mm
Approx. weight	111.9 kg

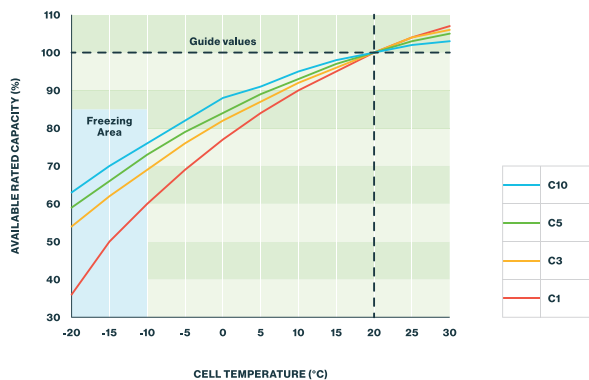


Compliant with IEC60896-21/22

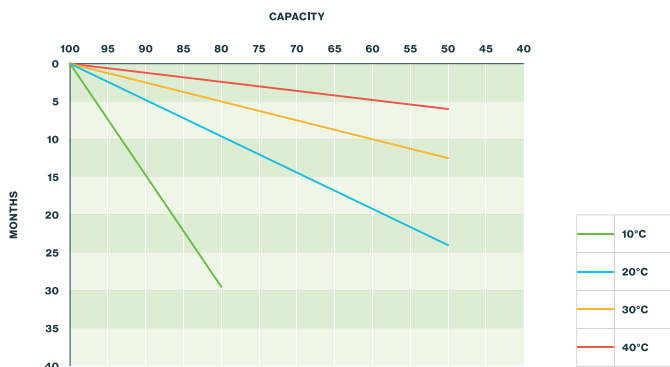
Charging voltage vs. Temperature



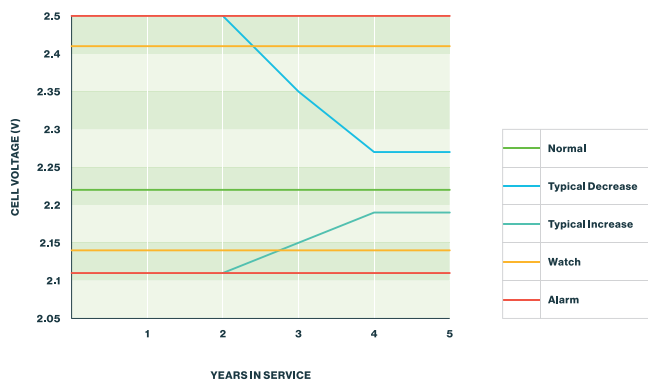
Capacity vs. Temperature



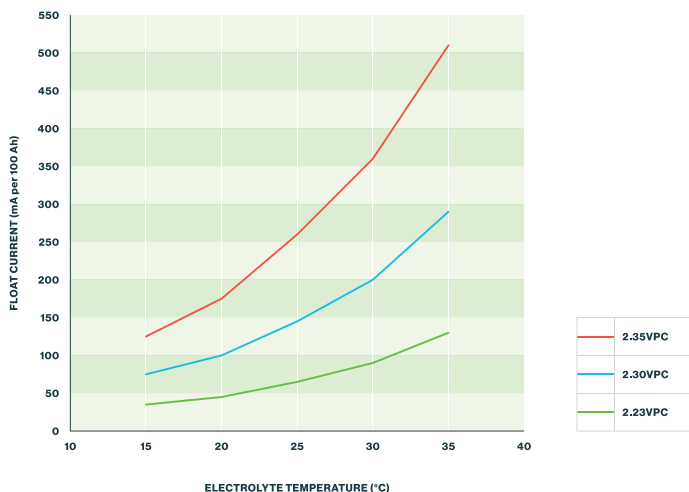
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

