

06OPV0300

(2V 335Ah @ 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 (33.5A, 1.8V) 335Ah
 5 hour rate (61A, 1.75V) 305Ah
 1 hour rate (185A, 1.6V) 185Ah

Internal Resistance

Fully Charged Battery 20°C (68°F) 0.63mOhm

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)

519A

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

Cycle use 2.40V (time limited)
 Maximum charging current 167.5A
 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 | 519.3 | 451.7 | 334.4 | 185.3 | 124.2 | 92.1 | 60.7 | 41.1 | 34.5 |
| 1.65 | 469.6 | 416.8 | 319.5 | 185.3 | 124.2 | 92.1 | 60.7 | 41.1 | 34.5 |
| 1.70 | 426.1 | 388.2 | 303.0 | 178.0 | 122.5 | 92.1 | 60.7 | 41.1 | 34.5 |
| 1.75 | 383.0 | 358.9 | 267.4 | 171.8 | 120.1 | 90.7 | 60.7 | 41.4 | 34.5 |
| 1.80 | 345.4 | 308.2 | 233.8 | 148.7 | 110.9 | 86.4 | 58.3 | 39.5 | 33.5 |
| 1.83 | 311.1 | 270.9 | 220.5 | 141.8 | 106.2 | 80.7 | 56.8 | 38.8 | 33.2 |
| 1.85 | 288.5 | 254.2 | 203.6 | 136.1 | 101.5 | 77.3 | 53.8 | 36.9 | 31.8 |
| 1.87 | 258.4 | 233.0 | 185.2 | 125.2 | 96.8 | 74.1 | 52.0 | 36.4 | 30.6 |
| 1.90 | 215.9 | 189.0 | 160.5 | 114.4 | 89.4 | 68.6 | 46.6 | 32.1 | 27.4 |

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 | 848.5 | 738.0 | 567.7 | 330.7 | 228.6 | 172.5 | 114.7 | 78.0 | 66.1 |
| 1.65 | 787.3 | 698.8 | 547.4 | 330.5 | 228.6 | 172.5 | 114.7 | 78.0 | 66.1 |
| 1.70 | 731.3 | 666.2 | 528.6 | 320.1 | 226.3 | 172.5 | 114.7 | 78.0 | 66.1 |
| 1.75 | 674.1 | 631.6 | 476.0 | 310.6 | 222.4 | 170.0 | 115.1 | 78.6 | 66.1 |
| 1.80 | 622.7 | 555.6 | 424.6 | 274.0 | 207.4 | 163.1 | 110.9 | 75.8 | 64.3 |
| 1.83 | 571.0 | 497.2 | 406.8 | 264.9 | 200.0 | 152.4 | 108.0 | 74.1 | 63.6 |
| 1.85 | 535.3 | 471.5 | 379.6 | 256.1 | 192.5 | 147.5 | 102.5 | 71.1 | 61.1 |
| 1.87 | 484.2 | 436.6 | 347.3 | 237.3 | 184.4 | 142.3 | 100.3 | 70.5 | 59.3 |
| 1.90 | 410.4 | 359.3 | 305.9 | 219.0 | 172.5 | 132.8 | 90.8 | 61.9 | 52.8 |



N Part of our Network Power range

Features

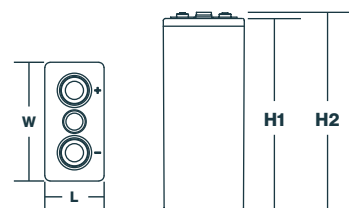
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO₂ footprint

Applications

- Telecommunications/ Mobile Phone Stations
- Traffic Systems
- UPS Systems
- Emergency Lighting
- Electrical Switching

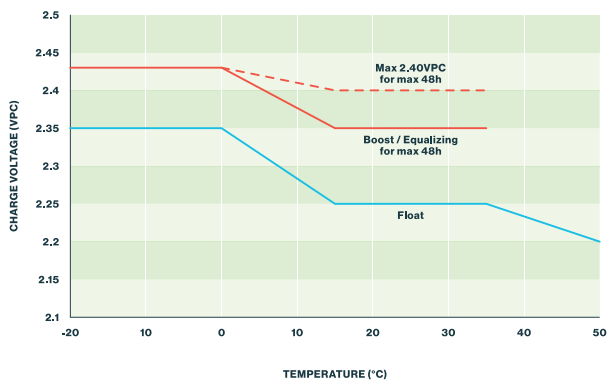
Dimensions and weight

Length 147 mm
 Width 208 mm
 Height (H1) 367 mm
 Total height (H2) 392 mm
 Approx. weight 26.2 kg

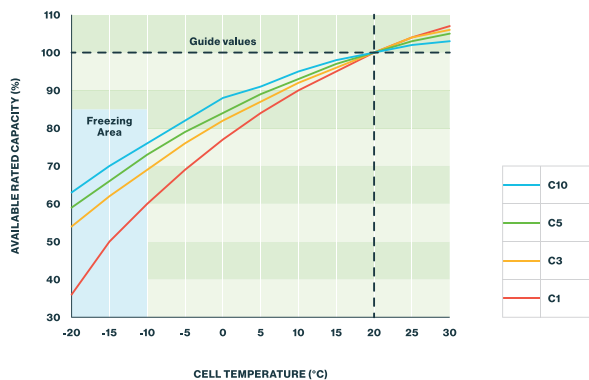


Compliant with IEC60896-21/22

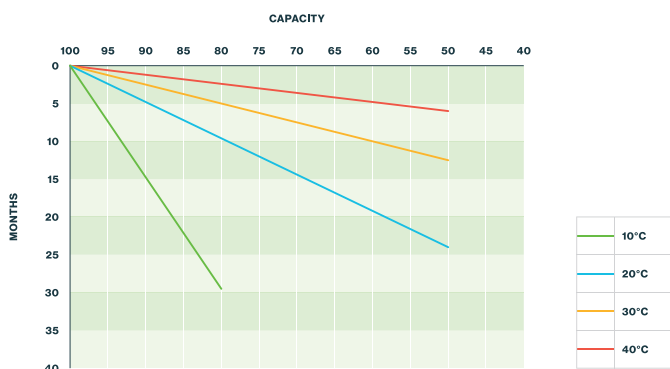
Charging voltage vs. Temperature



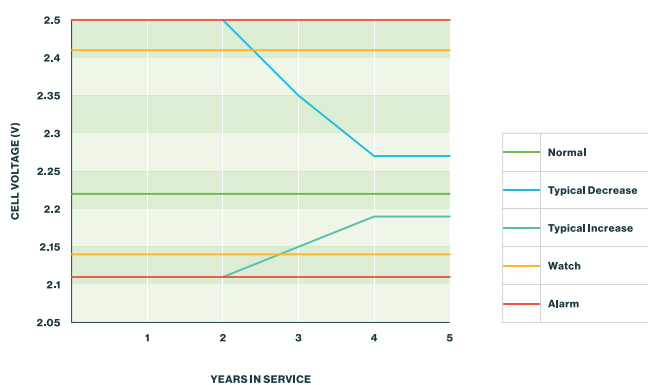
Capacity vs. Temperature



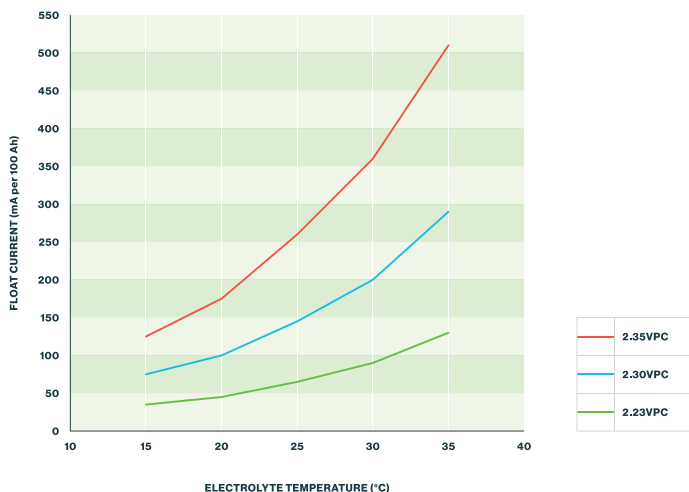
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

