Eternity TECHNOLOGIES

6 OPzV-ET 300

(2V 335Ah @ 10hr)

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	-3.5mV/°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

Features

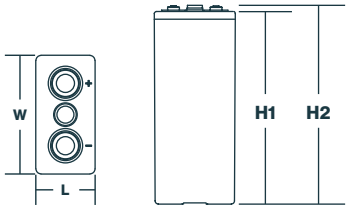
- High capacity density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO_2 footprint

Applications

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

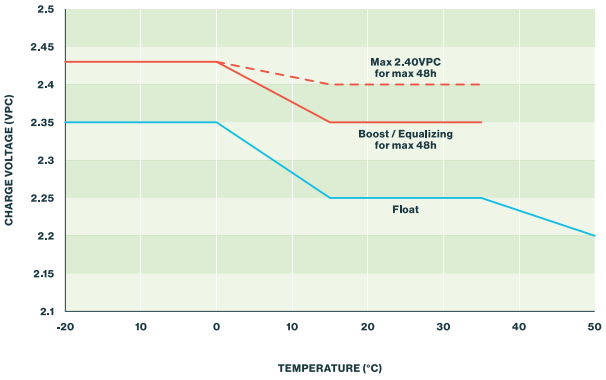
Dimensions and weight

Length (max)	147 mm
Width (max)	208 mm
Height: H1 (max)	360 mm
Total height: H2 (max)	375 mm
Approx. weight (max)	25.7 kg

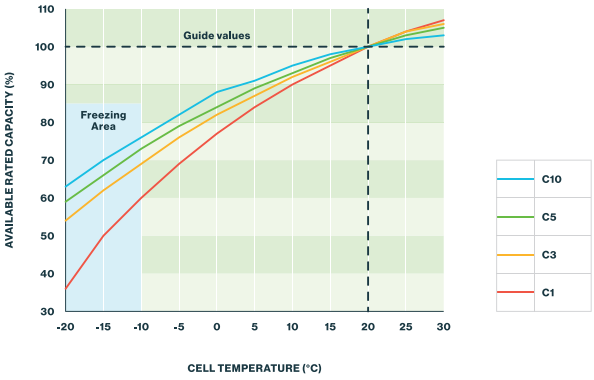


Compliant with IEC60896-21/22

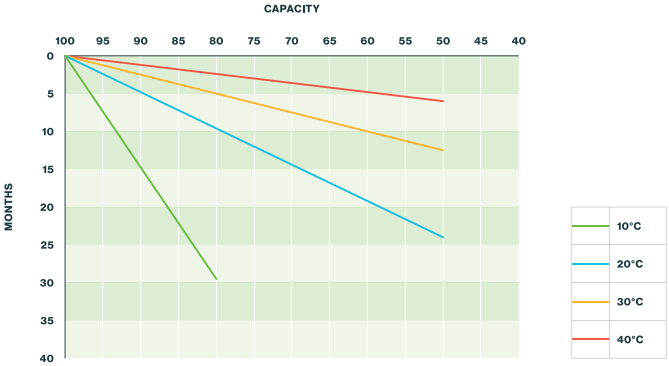
Charging voltage vs. Temperature



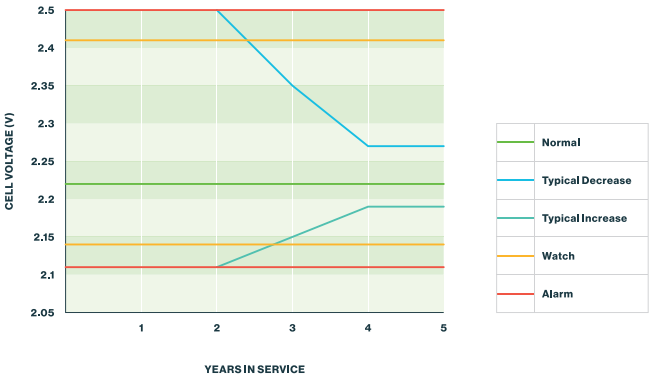
Capacity vs. Temperature



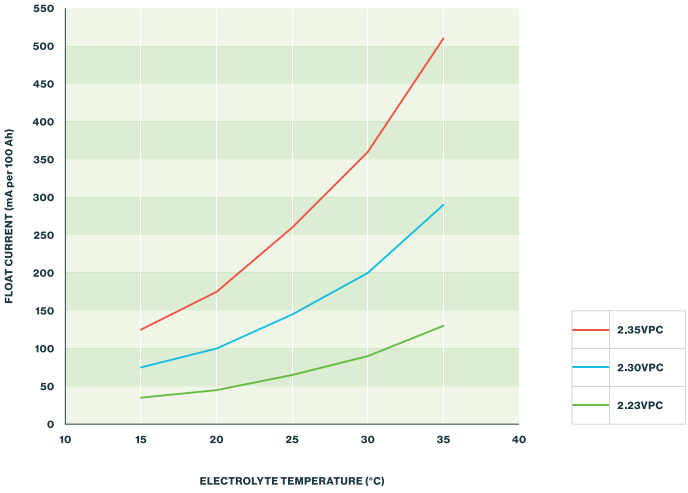
Self discharge at different temperatures



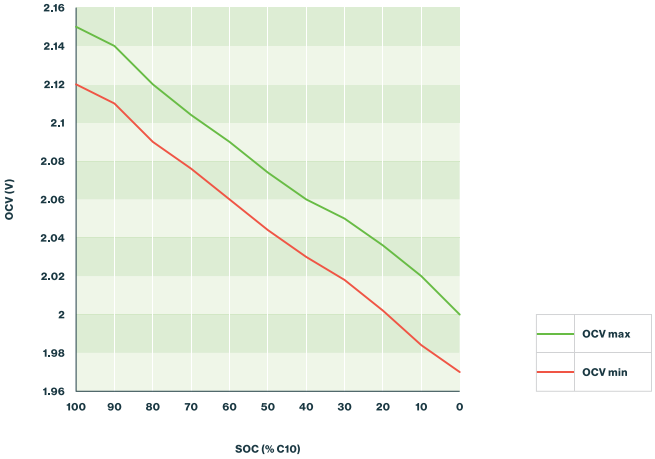
Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge



+971 724 33 535
info@eternitytechnologies.com
www.eternitytechnologies.com