

7 OPzV-ET 700

(2V 828Ah @ 10hr)



Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
Nominal Capacity 20°C (68°F)	
10 hour rate (82.8A, 1.8V)	828Ah
5 hour rate (150.2A, 1.75V)	751Ah
1 hour rate (492.3A, 1.6V)	492Ah
Internal Resistance	
Fully Charged Battery 20°C (68°F)	0.51mOhm
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)	
889A	
Charge Methods: Constant Voltage Charge 20°C (68°F)	
Cycle use	2.40V (time limited)
Maximum charging current	392A
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	885.6	864.3	712.4	492.3	288.4	220.1	152.7	104.1	85.3
1.65	794.3	784.1	656.1	471.8	288.4	220.1	152.7	104.1	85.3
1.70	720.1	692.8	593.8	442.8	285.0	220.1	152.7	104.1	85.3
1.75	622.8	593.0	516.2	370.3	267.0	215.9	150.2	102.4	85.3
1.80	540.1	506.1	429.1	347.1	251.0	204.6	144.1	98.6	82.8
1.83	460.5	447.8	405.2	321.4	245.5	195.0	139.1	96.5	78.5
1.85	441.7	407.6	372.7	298.5	222.0	182.6	131.8	90.9	75.8
1.87	372.3	362.9	338.3	274.5	215.1	173.1	124.6	86.2	72.4
1.90	294.8	287.4	270.1	238.1	185.4	159.4	112.0	79.4	66.7

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	1425.8	1391.5	1165.0	838.3	521.3	406.1	288.3	198.7	162.7
1.65	1316.9	1299.9	1099.1	812.0	521.3	406.1	288.3	198.7	162.7
1.70	1226.4	1179.9	1020.5	773.4	515.4	406.1	288.3	198.7	162.7
1.75	1091.2	1038.9	909.2	660.1	485.8	399.7	283.5	195.4	162.7
1.80	972.6	911.5	774.6	632.1	462.8	381.7	271.4	187.7	157.4
1.83	843.8	820.6	742.9	593.5	457.2	366.9	264.7	184.5	150.8
1.85	824.9	761.2	691.2	555.8	417.1	346.0	252.7	174.3	146.0
1.87	702.5	684.7	633.4	516.2	406.0	330.5	238.4	166.3	140.2
1.90	563.7	549.7	514.3	454.8	355.1	307.4	216.5	154.2	129.6

Features

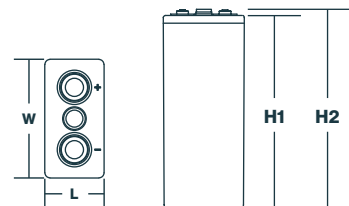
High capacity density
Robust tubular positive electrode design, compliant with DIN 40742
Low self discharge rate allows for up to 2 years shelf life
Operating temperature -20°C to +55°C
20 year float life at 20°C (68°F)
EUROBAT design life: Long Life > 12 years
Fully recyclable with low CO ₂ footprint

Applications

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

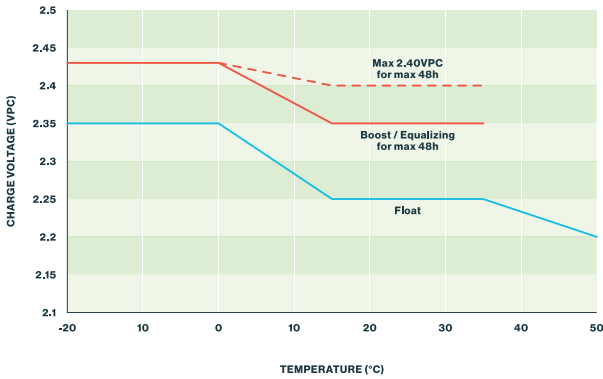
Dimensions and weight

Length	145 mm
Width	206 mm
Height (H1)	643 mm
Total height (H2)	656 mm
Approx. weight	52.5 kg

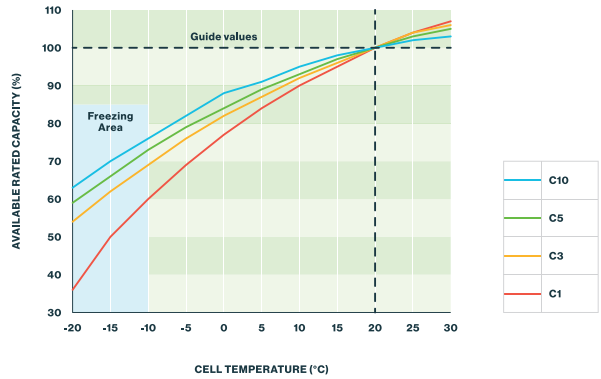


Compliant with IEC60896-21/22

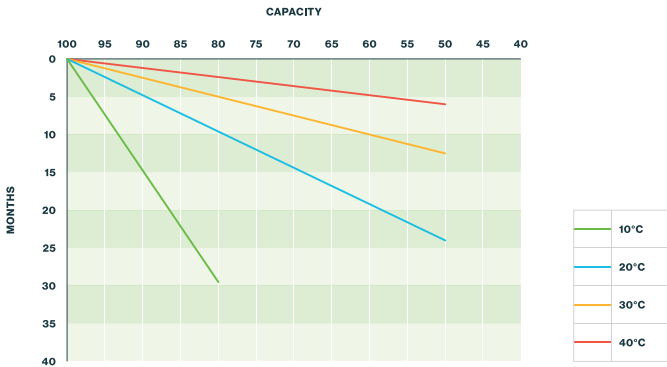
Charging voltage vs. Temperature



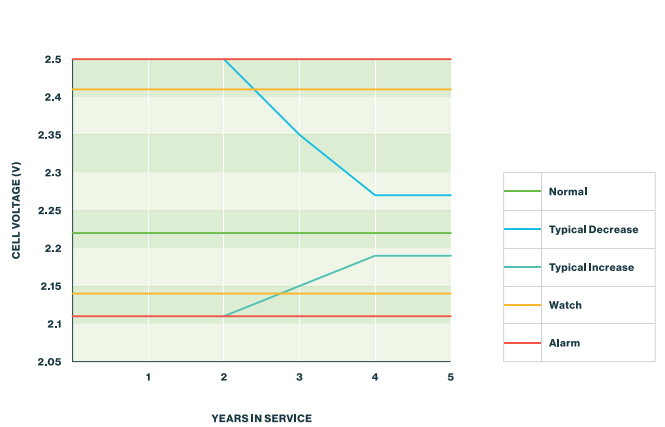
Capacity vs. Temperature



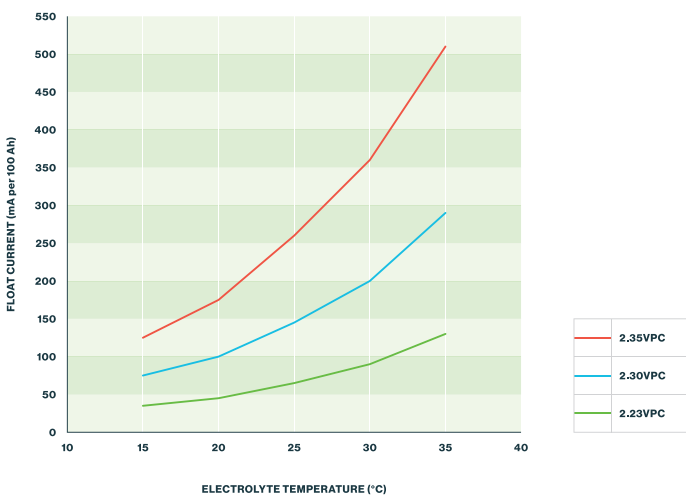
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

