

# 11 OPzV-ET 1100

## (2V 1300Ah @ 10hr)



### Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years
<b>Nominal Capacity 20°C (68°F)</b>	
10 hour rate (I30A, 1.8V)	1300Ah
5 hour rate (236A, 1.75V)	1180Ah
1 hour rate (774A, 1.6V)	774Ah
<b>Internal Resistance</b>	
Fully Charged Battery 20°C (68°F)	0.28mOhm
<b>Self-Discharge</b>	
2% of capacity declined per month at 20°C (average)	
<b>Operating Temperature Range</b>	-20°C to +55°C
<b>Maximum Discharge Current 20°C (68°F)</b>	1392A
<b>Charge Methods: Constant Voltage Charge 20°C (68°F)</b>	
Cycle use	2.40V (time limited)
Maximum charging current	650A
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	1391.7	1358.1	1119.5	773.6	453.2	346.0	240.0	163.5	134.1
1.65	1248.2	1232.1	1031.0	741.4	453.2	346.0	240.0	163.5	134.1
1.70	1131.5	1088.6	933.2	695.8	447.8	346.0	230.0	163.5	134.1
1.75	978.7	931.8	811.2	581.9	419.7	339.2	236.0	160.9	134.1
1.80	848.7	795.3	674.3	545.4	394.4	321.5	226.5	154.9	130.0
1.83	727.5	707.5	640.2	507.7	387.9	308.0	219.7	152.4	124.0
1.85	697.8	643.9	588.9	471.5	350.7	288.5	208.3	143.6	119.7
1.87	588.2	573.4	534.4	433.8	339.9	273.5	196.8	136.2	114.4
1.90	463.4	451.8	424.6	374.3	291.4	250.5	176.1	124.8	104.9

### 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	2241.3	2187.2	1833.3	1320.0	821.3	638.0	451.9	311.7	254.8
1.65	2068.9	2042.3	1727.9	1276.9	921.3	638.0	451.9	311.7	254.8
1.70	1929.6	1856.3	1604.2	1218.3	812.2	638.0	451.9	311.7	254.8
1.75	1716.0	1634.4	1429.1	1038.6	763.6	626.1	444.6	307.1	254.8
1.80	1528.1	1431.8	1220.1	994.6	729.7	599.5	428.1	296.1	248.4
1.83	1331.9	1295.8	1176.1	938.7	724.2	579.3	407.9	292.4	237.4
1.85	1300.8	1200.8	1092.7	880.9	659.1	546.3	398.8	275.0	230.1
1.87	1108.3	1080.8	1001.9	816.8	643.5	521.6	378.6	262.2	221.8
1.90	885.5	863.5	807.6	714.1	560.1	482.2	341.9	242.9	205.3

### Features

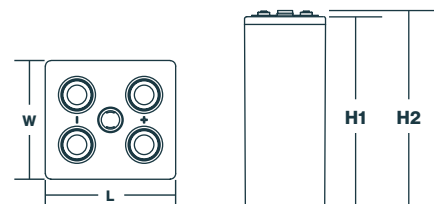
High capacity density
Robust tubular positive electrode design, compliant with DIN 40742
Low self discharge rate allows for up to 2 years shelf life
Operating temperature -20°C to +55°C
20 year float life at 20°C (68°F)
EUROBAT design life: Long Life > 12 years
Fully recyclable with low CO <sub>2</sub>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

### Applications

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

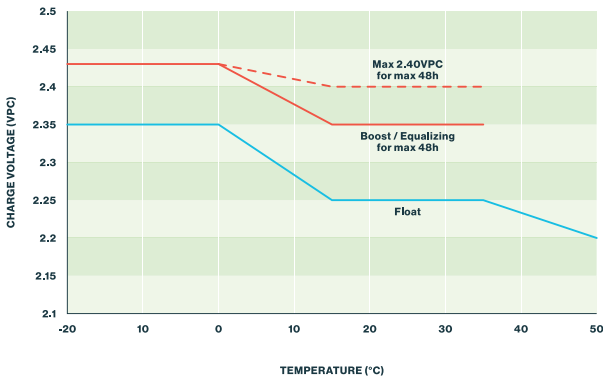
### Dimensions and weight

Length (max)	215 mm
Width (max)	277 mm
Height: H1 (max)	650 mm
Total height: H2 (max)	665 mm
Approx. weight (max)	90.8kg

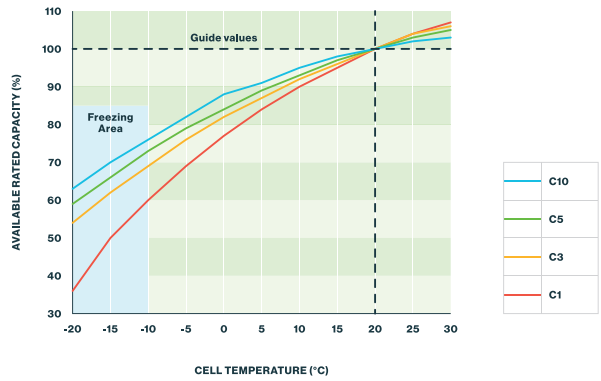


Compliant with IEC60896-21/22

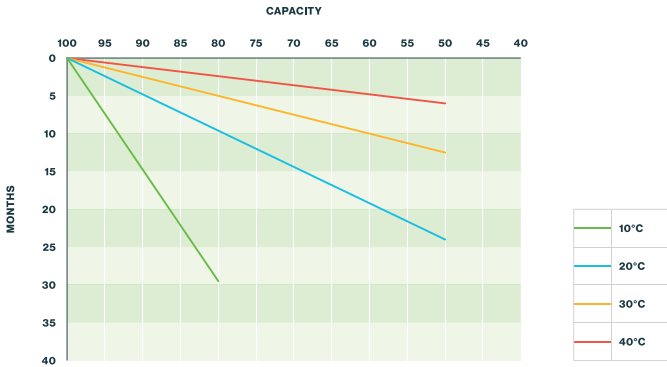
Charging voltage vs. Temperature



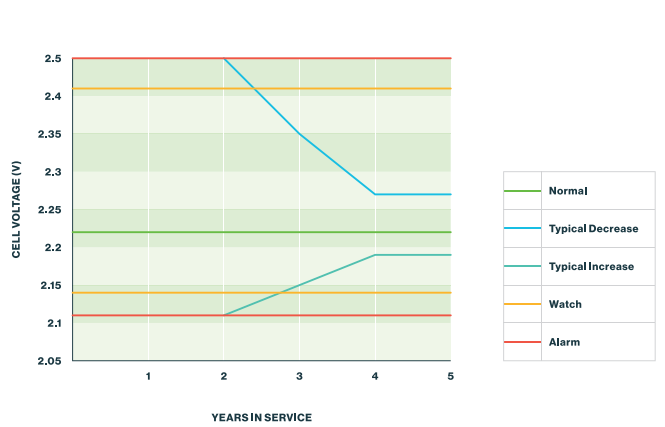
Capacity vs. Temperature



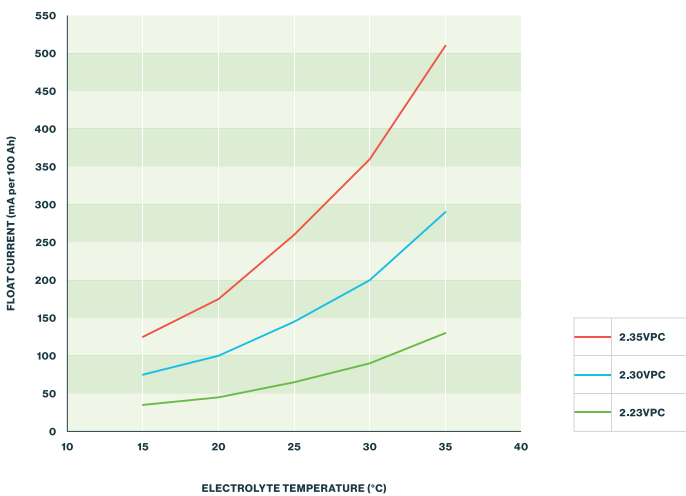
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

