

# 12 OPzV-ET 1200

## (2V 1420Ah @ 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 (142A, 1.8V)	1420Ah
5 hour rate (258A, 1.75V)	1287Ah
1 hour rate (844A, 1.6V)	844Ah
<b>Internal Resistance</b>	
Fully Charged Battery 20°C (68°F)	0.26mOhm
<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>	1519A
<b>Charge Methods: Constant Voltage Charge 20°C (68°F)</b>	
Cycle use	2.40V (time limited)
Maximum charging current	710A
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	1518.2	1481.6	1221.3	843.9	494.4	377.4	261.8	178.4	146.3
1.65	1361.7	1344.1	1124.7	808.8	494.4	377.4	261.8	178.4	146.3
1.70	1234.4	1187.6	1018.0	759.1	488.5	377.4	261.8	178.4	146.3
1.75	1067.7	1016.5	884.9	634.8	457.8	370.0	257.4	175.5	146.3
1.80	925.8	867.6	735.6	595.0	430.3	350.7	247.1	169.0	142.0
1.83	793.6	771.8	698.4	553.9	423.2	336.0	239.7	166.3	135.3
1.85	761.2	702.4	642.4	514.4	382.6	314.7	227.2	156.7	130.6
1.87	641.7	625.5	583.0	473.2	370.8	298.4	214.7	148.6	124.8
1.90	505.5	492.9	463.2	408.3	317.9	273.3	192.1	136.1	114.4

### 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	2445.0	2386.0	2000.0	1440.0	896.0	696.0	493.0	340.0	278.0
1.65	2257.0	2228.0	1885.0	1393.0	896.0	696.0	493.0	340.0	278.0
1.70	2105.0	2025.0	1750.0	1329.0	886.0	696.0	493.0	340.0	278.0
1.75	1872.0	1783.0	1559.0	1133.0	833.0	683.0	485.0	335.0	278.0
1.80	1667.0	1562.0	1331.0	1085.0	796.0	654.0	467.0	323.0	271.0
1.83	1453.0	1413.0	1283.0	1024.0	790.0	632.0	445.0	319.0	259.0
1.85	1419.0	1310.0	1192.0	961.0	719.0	596.0	435.0	300.0	251.0
1.87	1209.0	1179.0	1093.0	891.0	702.0	569.0	413.0	286.0	242.0
1.90	966.0	942.0	881.0	779.0	611.0	526.0	373.0	265.0	224.0

### Features

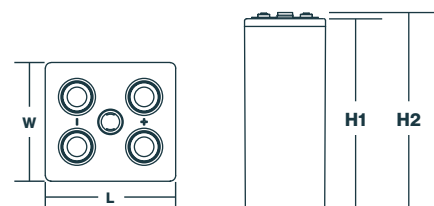
High capacity density
Robust tubular positive electrode design, compliant with DIN 40742
Low self discharge rate allows for up to 2 years shelf life
Operating temperature -20°C to +55°C
20 year float life at 20°C (68°F)
EUROBAT design life: Long Life > 12 years
Fully recyclable with low CO <sub>2</sub>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

### Applications

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

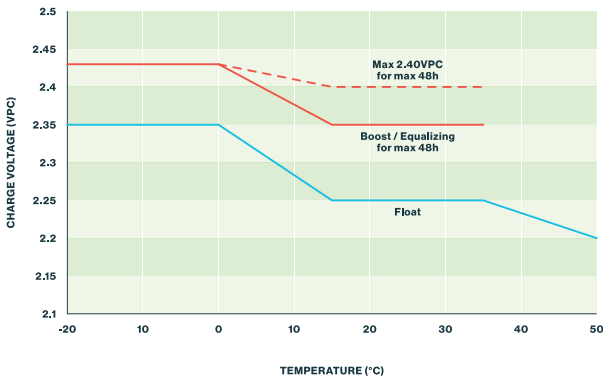
### Dimensions and weight

Length	210 mm
Width	275 mm
Height (H1)	645 mm
Total height (H2)	658 mm
Approx. weight	97 kg

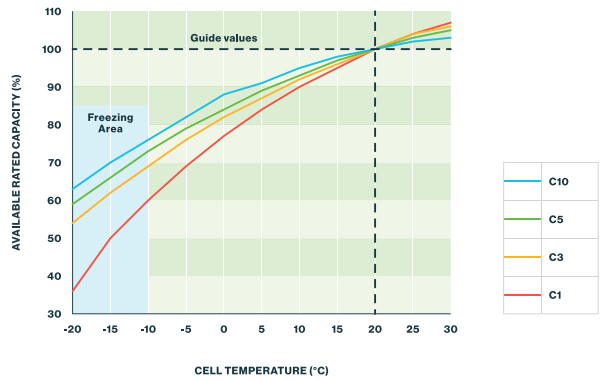


Compliant with IEC60896-21/22

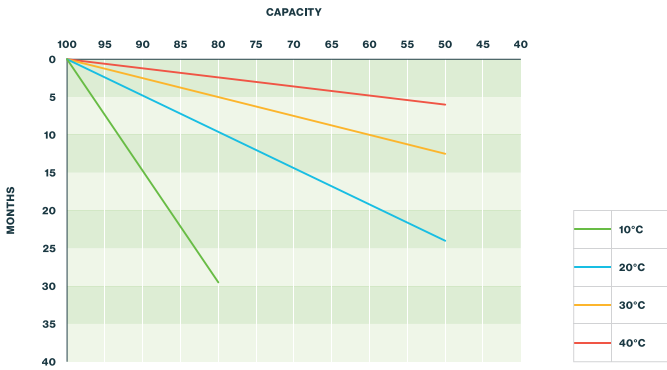
Charging voltage vs. Temperature



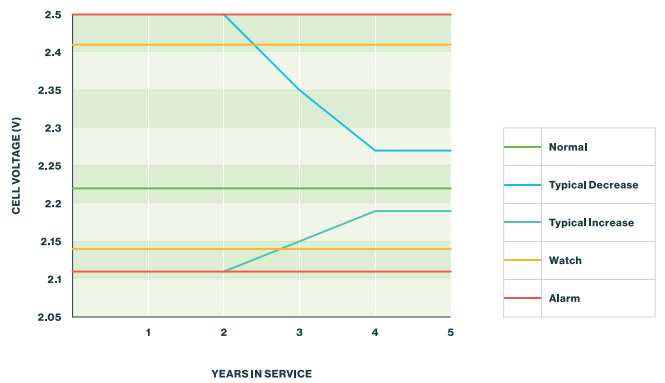
Capacity vs. Temperature



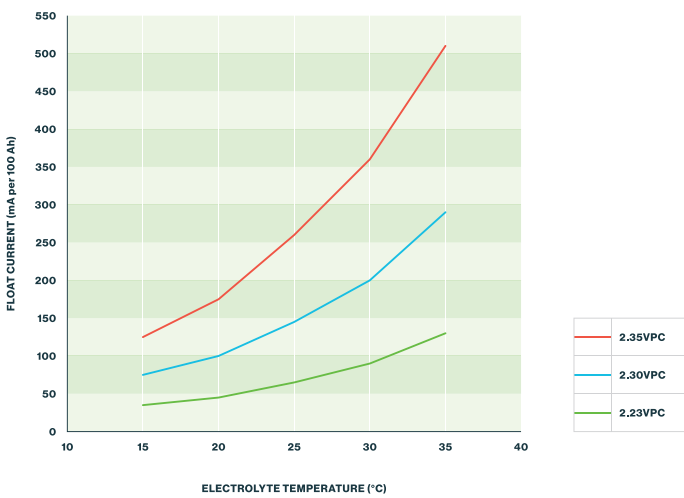
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

