

# 13 OPzV-ET 1300

## (2V 1500Ah @ 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 (150A, 1.8V)	1500Ah
5 hour rate (272A, 1.75V)	1360Ah
1 hour rate (892A, 1.6V)	892Ah
<b>Internal Resistance</b>	
Fully Charged Battery 20°C (68°F)	0.25mOhm
<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>	1595A
<b>Charge Methods: Constant Voltage Charge 20°C (68°F)</b>	
Cycle use	2.40V (time limited)
Maximum charging current	745A
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	1605.2	1566.5	1291.3	892.3	522.7	399.0	276.8	188.6	154.7
1.65	1439.8	1421.2	1189.2	855.2	522.7	399.0	276.8	188.6	154.7
1.70	1305.2	1255.7	1076.4	802.6	516.5	399.0	276.8	188.6	154.7
1.75	1128.9	1074.8	935.6	671.2	484.0	391.2	272.2	185.6	154.7
1.80	978.9	917.3	777.8	629.1	455.0	370.8	261.3	178.7	150.1
1.83	839.1	816.0	738.4	585.7	447.5	355.3	253.4	175.8	143.1
1.85	804.8	742.7	679.2	543.9	404.5	332.7	240.2	165.7	138.1
1.87	678.5	661.4	616.4	500.3	392.1	315.5	227.0	157.1	132.0
1.90	534.5	521.2	489.8	431.7	336.1	289.0	203.1	143.9	121.0

### 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	2585.2	2522.8	2114.7	1522.6	947.4	735.9	521.3	359.5	293.9
1.65	2386.4	2355.7	1993.1	1472.9	947.4	735.9	521.3	359.5	293.9
1.70	2225.7	2141.1	1850.3	1405.2	936.8	735.9	521.3	359.5	293.9
1.75	1979.3	1885.2	1648.4	1198.0	880.8	722.2	512.8	354.2	293.9
1.80	1762.6	1651.6	1407.3	1147.2	841.6	691.5	493.8	341.5	286.5
1.83	1536.3	1494.0	1356.6	1082.7	835.3	668.2	470.5	337.3	273.8
1.85	1500.4	1385.1	1260.3	1016.1	760.2	630.2	459.9	317.2	265.4
1.87	1278.3	1246.6	1155.7	942.1	742.2	601.6	436.7	302.4	255.9
1.90	1021.4	996.0	931.5	823.7	646.0	556.2	394.4	280.2	236.8

### Features

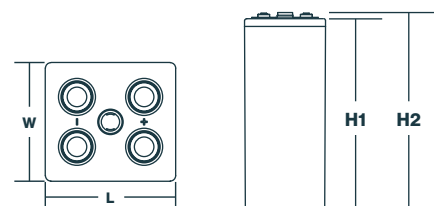
High capacity density
Robust tubular positive electrode design, compliant with DIN 40742
Low self discharge rate allows for up to 2 years shelf life
Operating temperature -20°C to +55°C
20 year float life at 20°C (68°F)
EUROBAT design life: Long Life > 12 years
Fully recyclable with low CO <sub>2</sub>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

### Applications

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

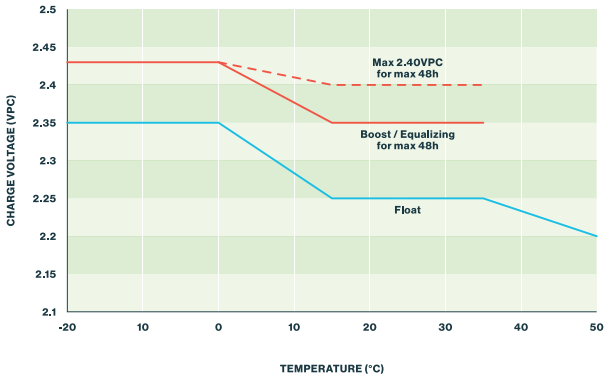
### Dimensions and weight

Length	210 mm
Width	275 mm
Height (H1)	645 mm
Total height (H2)	658 mm
Approx. weight	100.0 kg

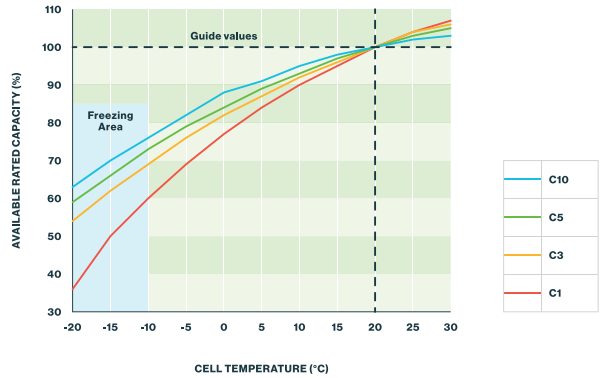


Compliant with IEC60896-21/22

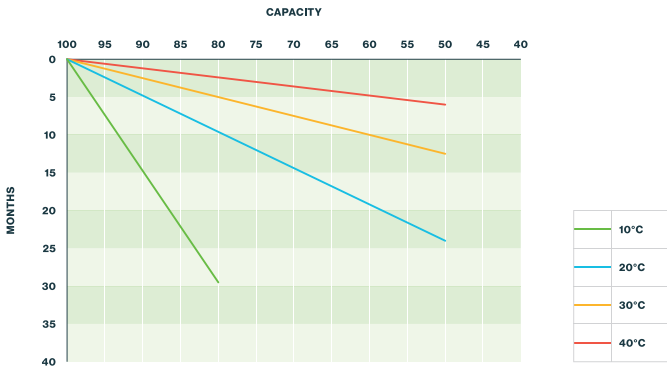
Charging voltage vs. Temperature



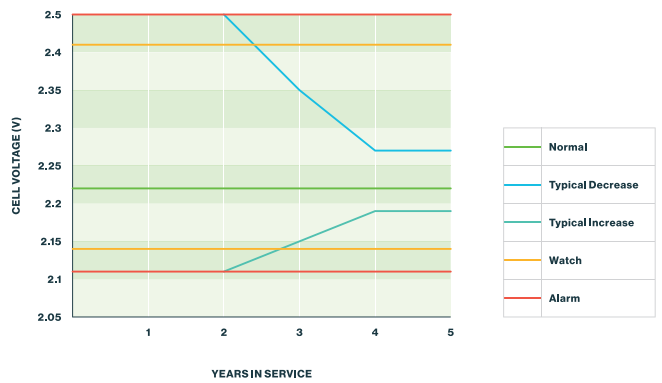
Capacity vs. Temperature



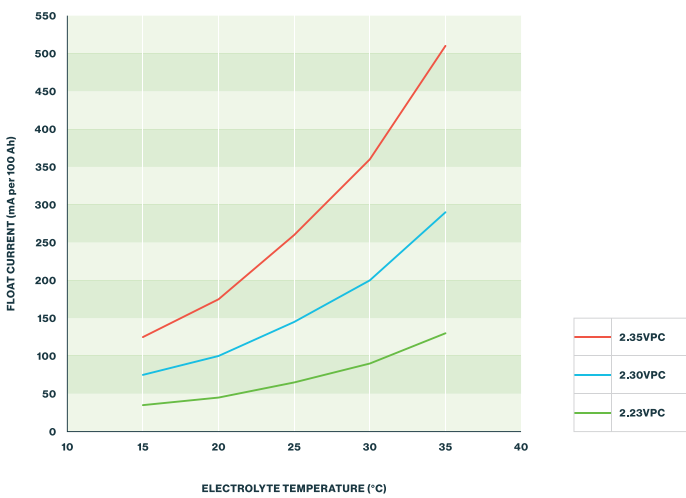
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

