

# 12 OPzS-ET 1500

## (2V 1650Ah @ 10hr)



### Performance characteristics

Nominal Voltage	2V
Number of cells	1
Design Life	20 years

#### Nominal Capacity 20°C (68°F)

10 hour rate (165A, 1.8V)	1650Ah
5 hour rate (292A, 1.75V)	1460Ah
1 hour rate (906A, 1.6V)	906Ah

#### Internal Resistance

Fully Charged Battery 20°C (68°F)	0.23mOhm
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#### Electrolyte

Nominal S.G at 20°C = 1.240kg/l

#### Operating Temperature Range

-20°C to +55°C

#### Maximum Discharge Current 20°C (68°F)

1470A

#### Charge Methods: Constant Voltage Charge 20°C (68°F)

Cycle use	2.40V (time limited)
Maximum charging current	660A
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	1426.8	1354.0	1155.0	905.6	623.1	462.0	327.1	217.4	178.6
1.65	1261.8	1203.5	1038.5	827.9	594.0	448.4	320.3	216.4	178.6
1.70	1091.9	1053.1	922.1	745.4	556.1	429.0	308.6	212.6	176.6
1.75	924.0	895.9	799.8	656.1	508.6	400.9	292.1	205.8	172.8
1.80	754.1	733.8	669.7	561.0	448.4	363.0	268.9	195.1	165.0
1.83	648.4	632.8	584.3	497.9	405.7	332.9	250.4	185.4	157.2
1.85	578.5	565.9	528.0	455.2	376.6	313.5	238.8	178.6	151.4
1.87	505.7	496.0	464.9	406.7	341.6	288.3	223.2	167.9	143.6
1.90	396.0	390.2	370.8	332.9	288.3	249.4	200.9	151.4	132.0

#### 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	2319.7	2222.6	1946.0	1543.2	1087.1	828.9	600.8	407.6	339.7
1.65	2106.2	2023.7	1781.0	1431.6	1048.2	807.5	592.1	406.7	339.7
1.70	1873.2	1810.1	1611.2	1310.3	994.9	779.4	572.6	401.8	337.8
1.75	1625.7	1582.1	1426.8	1174.4	923.0	738.6	548.4	391.1	331.0
1.80	1358.8	1329.7	1222.9	1028.8	828.9	678.4	509.6	373.7	318.4
1.83	1184.1	1159.9	1077.4	921.1	755.1	628.0	476.6	357.2	304.8
1.85	1072.5	1048.2	980.3	849.3	706.6	594.0	457.1	345.5	295.1
1.87	945.4	927.9	813.4	764.8	645.4	549.4	430.0	326.1	281.5
1.90	752.2	741.5	706.6	635.7	553.2	481.4	391.1	297.0	260.1

### Features

High energy density

Robust tubular positive electrode design, compliant with DIN 40736

Minimal maintenance due to low antimony alloy and large electrolyte volume

Operating temperature -20°C to +55°C

EUROBAT design life: Long Life > 12 years

Fully recyclable with low CO<sub>2</sub> footprint

### Applications

Telecommunications/ Mobile Phone Stations

Traffic Systems

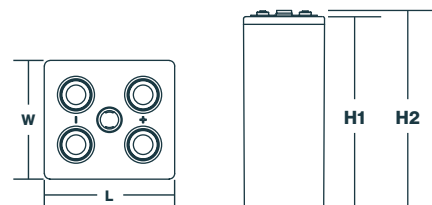
UPS Systems

Emergency Lighting

Electrical Switching

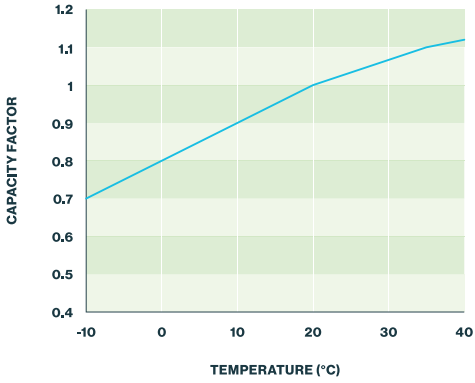
### Dimensions and weight

Length	210 mm
Width	275 mm
Height (H1)	797 mm
Total height (H2)	810 mm
Dry weight	77.1 kg
Filled weight	105.6 kg

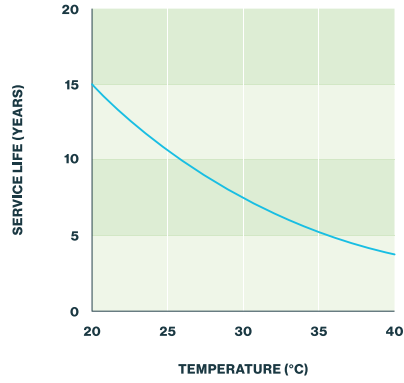


Compliant with IEC60896-11

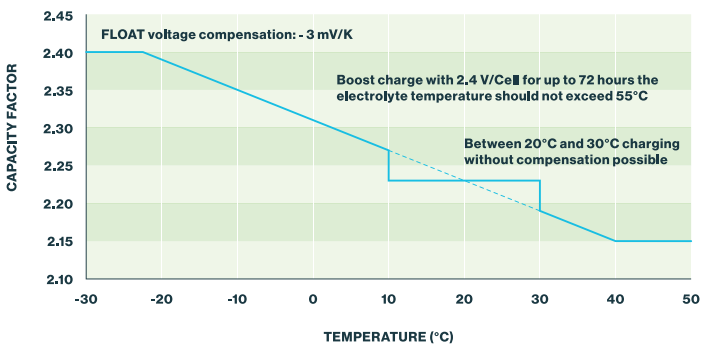
Capacity factor vs. Temperature - discharge current  $I_{10}$



Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge

