

# 3 OPzV-ET 150

## (2V 168Ah @ 10hr)



### Performance characteristics

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

#### Nominal Capacity 20°C (68°F)

10 hour rate (16.87A, 1.8V)	168Ah
5 hour rate (30.75A, 1.75V)	153Ah
1 hour rate (93A, 1.6V)	93Ah

#### Internal Resistance

Fully Charged Battery 20°C (68°F)	1.30mOhm
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#### 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)

261A

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

Cycle use	2.40V (time limited)
Maximum charging current	84A
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	261.6	227.6	168.5	93.3	62.6	46.4	30.6	20.7	17.4
1.65	236.6	210.0	161.0	93.3	62.6	46.4	30.6	20.7	17.4
1.70	214.7	195.5	152.6	89.7	61.7	46.4	30.6	20.7	17.4
1.75	192.9	180.8	134.7	86.6	60.5	45.8	30.6	20.7	17.4
1.80	174.0	155.3	117.8	74.9	55.9	43.6	29.4	20.0	16.9
1.83	156.8	136.5	111.1	71.4	53.6	40.7	28.6	19.6	16.7
1.85	145.6	128.3	102.8	68.7	51.2	39.0	27.2	18.6	16.1
1.87	129.8	117.0	93.0	62.9	48.6	37.2	26.2	18.3	15.4
1.90	108.0	94.6	80.3	57.2	44.8	34.4	23.3	16.1	13.7

#### 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	427.9	372.2	285.9	167.0	115.5	86.9	58.1	39.3	33.3
1.65	395.7	351.2	275.8	166.4	115.5	86.9	58.1	39.3	33.3
1.70	369.2	336.3	267.1	161.3	113.6	86.9	58.1	39.3	33.3
1.75	339.4	318.0	240.0	156.1	111.8	85.8	57.5	39.7	33.3
1.80	314.2	280.1	214.8	137.7	104.5	82.3	56.2	38.0	32.2
1.83	287.5	250.4	204.7	133.7	100.4	76.6	54.3	37.1	32.0
1.85	269.6	237.5	191.3	128.6	96.9	74.6	52.2	35.9	30.2
1.87	242.9	219.0	174.3	118.6	92.1	71.1	50.5	35.3	29.5
1.90	205.9	180.2	152.6	109.7	86.0	65.9	44.9	30.9	26.4

### 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

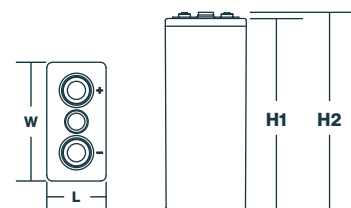
UPS Systems

Emergency Lighting

Electrical Switching

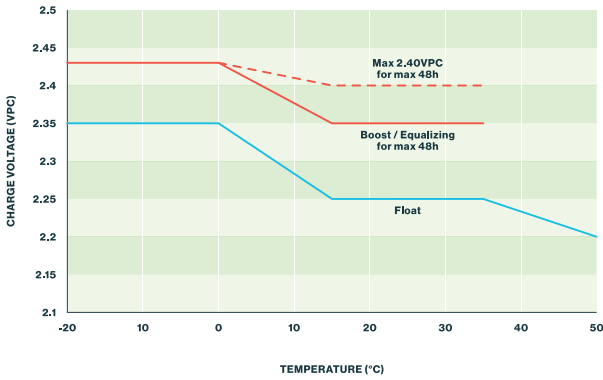
### Dimensions and weight

Length	103 mm
Width	206 mm
Height (H1)	354 mm
Total height (H2)	367 mm
Dry weight	10.5 kg
Filled weight	15.3 kg

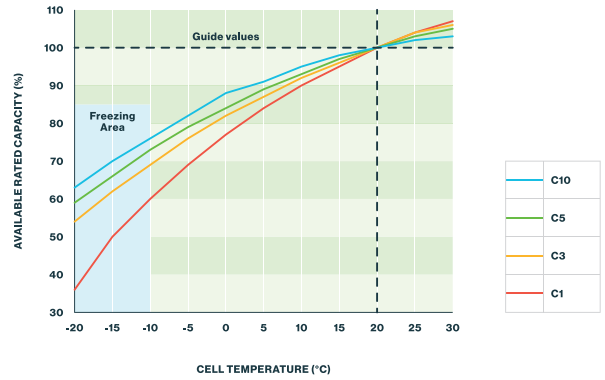


Compliant with IEC60896-21/22

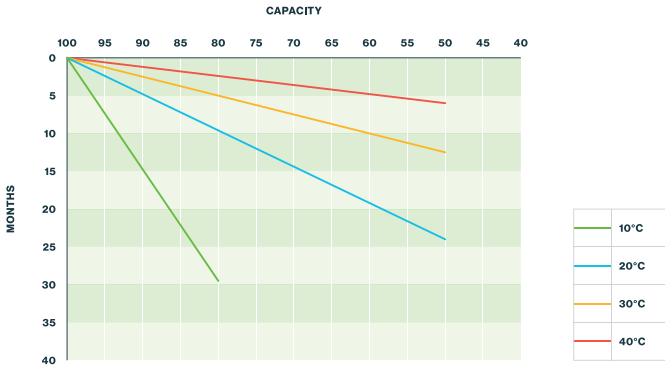
### Charging voltage vs. Temperature



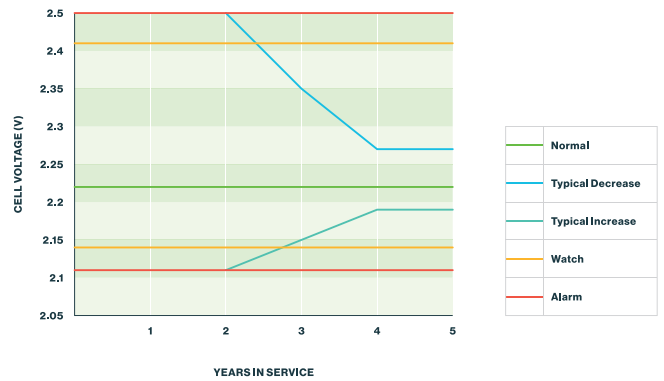
### Capacity vs. Temperature



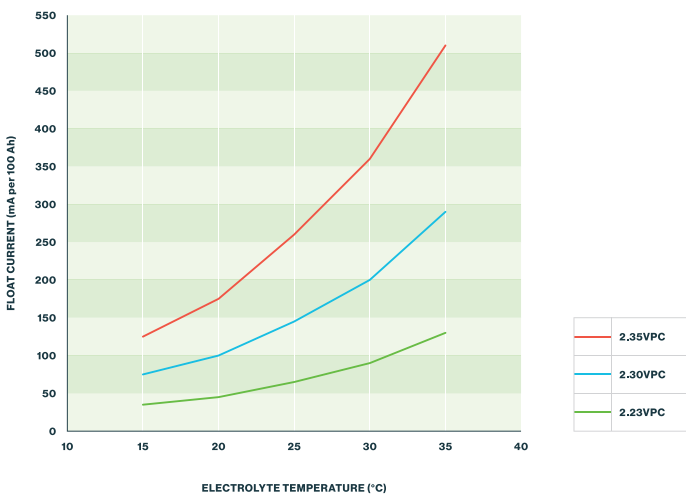
### Self discharge at different temperatures



### Float voltage deviation vs. Years in service



### Float current: Residual charge current



### Storage: Determine the state of charge

