STATIONARY Valve Regulated Tubular Plate

Upower
Unlimited power

UP-OPzS Series

4 OPzS 200

O P z S C E L L



Main Features

- Design Life
  20 years at 20°C.
- Water Refilling
  More than 2 years at 20°C.
- IIEC 896-1
  2300 cycles.
- Self Discharge
  Approx. 2% per month at 20°C.
- Operating Temperature Range
  -20°C to 55°C, recommended 10°C to 30°C.
- Full Conformity with
  DIN 40737-1, IIEC 896-11 and EN 50272-2.

Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	322
Capacity (Ah), C10 (1,80 V/cell, 20°C)	215
Number of Plates (+) per Cell	4
Floating Voltage Set Point (V/cell)	2.23
Maximum Initial Charge Current (A)	0.3 C10
Recommended Boost Charge Voltage (V/cell)	2.40
Recommended End of Discharge Voltage (10-hr rate) (V/cell)	1.80
Short Circuit Current (A)	2720
Internal Resistance (mOhm)	0.740
Number of Cycles at 60% Depth of Discharge (20°C)	2300
Self-Discharge Rate per Month at 20°C	Approx. 2.5%
Dimensions in mm (L x W x H1 / H2) H1 = Height to the lid H2 = Height including connectors & bolts	103 x 206 x 355 x 383
Weight (kg)	Wet: 17.5 / Dry: 12.8
Type and Number of Poles	M10 / 2
Operating Temperature / Recommended Temperature	-20°C-55°C / 10°C-30°C

** All dimensions and weights shown are subject to manufacturing tolerances.*

MASTER BATTERY

Paseo de Extremadura, 39 - 28935 Móstoles - Madrid (Spain)
Tel. +34 918 021 649 - Fax. +34 917 750 542
info@masterbattery.es - www.masterbattery.es/en

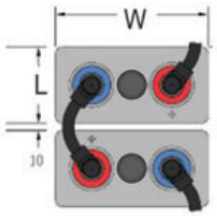
zeroCO2

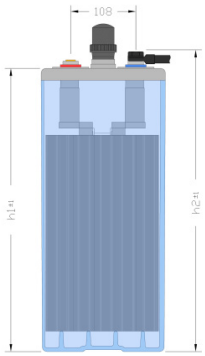
STATIONARY Valve Regulated Tubular Plate

4 OPzS 200

Upower
Unlimited power

Dimensions





Constant Current Discharge in A (at 20°C)

Discharge Time															
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	331.6	285.9	199.1	154.9	128.4	80.2	60.0	48.4	40.9	35.5	31.5	28.4	23.7	20.5	13.6
1.65 V	306.3	269.1	194.5	152.7	127.0	79.5	59.5	48.1	40.6	35.3	31.3	28.2	23.6	20.4	13.5
1.70 V	276.6	247.1	185.6	148.6	124.5	78.5	58.9	47.6	40.2	35.0	31.0	27.9	23.4	20.2	13.4
1.75 V	243.7	220.6	171.5	140.5	119.5	76.8	57.8	46.8	39.6	34.5	30.6	27.5	23.1	20.0	13.2
1.80 V	208.2	190.3	152.5	127.8	110.4	73.2	55.7	45.4	38.5	33.5	29.8	26.9	22.6	19.5	12.9
1.83 V	186.0	170.9	139.0	117.9	102.8	69.6	53.4	43.8	37.3	32.5	29.0	26.1	22.0	19.1	12.7
1.85 V	170.9	157.4	129.2	110.4	96.9	66.5	51.4	42.2	36.0	31.5	28.1	25.4	21.4	18.6	12.4
1.87 V	155.4	143.8	118.8	102.3	90.3	62.8	48.8	40.3	34.5	30.3	27.0	24.5	20.7	18.0	12.0
1.90 V	128.6	122.6	102.5	89.1	79.2	56.1	44.1	36.7	31.5	27.7	24.8	22.5	19.1	16.6	11.2

Constant Power Discharge in W/cell (at 20°C)

Discharge Time															
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	535.8	471.8	345.3	275.4	231.8	148.7	112.5	91.5	77.6	67.7	60.1	54.3	45.6	39.5	26.3
1.65 V	505.6	450.3	338.2	271.9	229.5	147.6	111.8	90.9	77.2	67.3	59.8	54.0	45.4	39.3	26.1
1.70 V	468.2	421.5	324.8	265.3	225.5	146.0	110.7	90.2	76.5	66.7	59.3	53.5	45.0	39.0	25.9
1.75 V	423.4	384.8	304.0	252.6	217.3	143.1	109.0	88.9	75.5	65.9	58.6	52.9	44.5	38.6	25.7
1.80 V	371.8	340.5	275.2	232.7	202.5	137.0	105.3	86.3	73.5	64.3	57.3	51.7	43.6	37.8	25.2
1.83 V	337.7	310.5	253.9	216.8	190.2	130.7	101.3	83.5	71.3	62.5	55.8	50.5	42.6	37.0	24.7
1.85 V	313.8	289.2	238.1	204.6	180.4	125.4	97.7	80.7	69.2	60.7	54.3	49.1	41.5	36.1	24.2
1.87 V	288.5	266.9	221.1	191.1	169.3	119.0	93.2	77.3	66.4	58.4	52.3	47.4	40.1	35.0	23.5
1.90 V	243.6	231.2	193.5	168.5	150.1	107.2	84.8	70.7	61.0	53.8	48.3	43.9	37.3	32.5	22.0

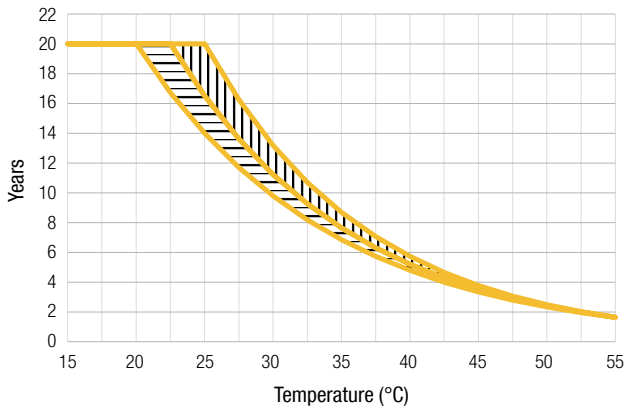
** Upower reserves the right to change or revise without notice any information or detail given in this publication.*

MASTER BATTERY

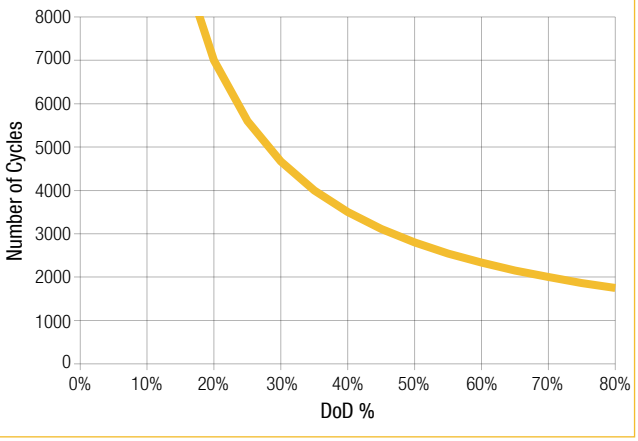
Paseo de Extremadura, 39 - 28935 Móstoles - Madrid (Spain)
Tel. +34 918 021 649 - Fax. +34 917 750 542
info@masterbattery.es - www.masterbattery.es/en

zeroCO2

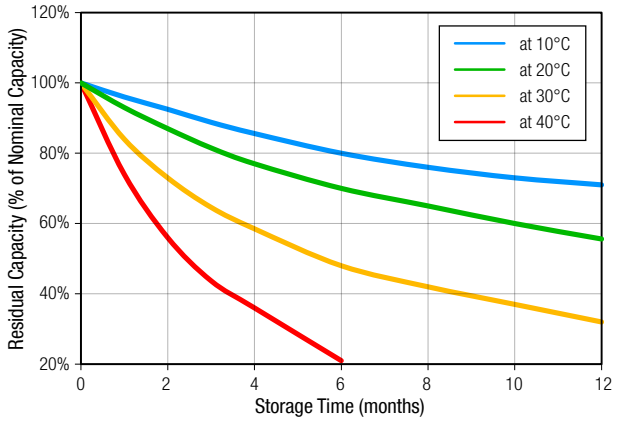
Expected Service Life vs. Operating Temperature



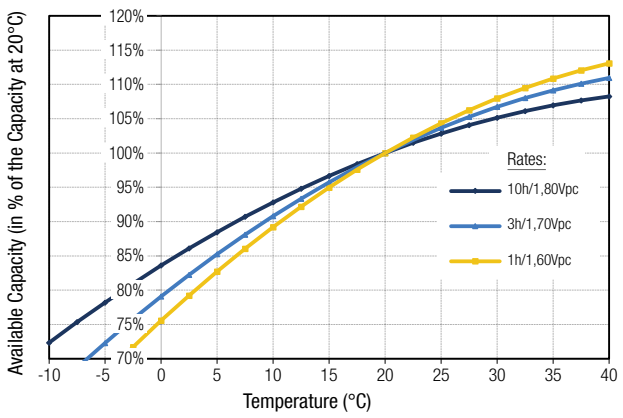
Number of Cycles vs. DOD



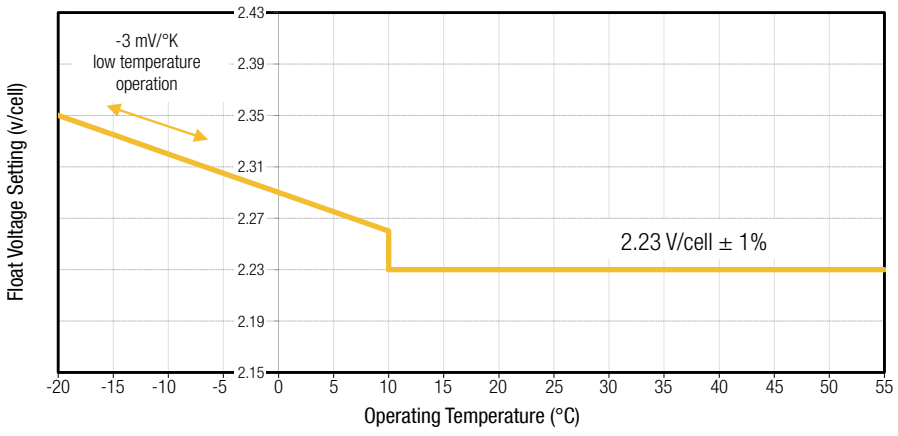
Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature



MASTER BATTERY
Paseo de Extremadura, 39 - 28935 Móstoles - Madrid (Spain)
Tel. +34 918 021 649 - Fax. +34 917 750 542
info@masterbattery.es - www.masterbattery.es/en

zeroCO2