

4 UOPzS 500



Specification	
Nominal Voltage	2,0 V
Nominal Capacity (C ₁₀)	500 AH
Discharge current	C ₁₀ /10h = 50 A
Final discharge voltage/cell	1,80 V
Nominal S.G. of electrolyte	1,24 ± 0,01 kg/l at 20°C
Rated temperature	20°C
Capacity C ₁₀₀	650 Ah (at 25°C, U _f = 1,85V/cell)
Specified torque for poll screws	20 ± 1 Nm
Dimensions of the cell	Length 198 mm (7.80 inches)
	Width 101 mm (3.98 inches)
	Height 613 mm (24.13 inches)
Weight of the cell (± 5%)	With acid 30,5 kg
	Without acid 21,0 kg
Recommended dept of discharge	< 80% C ₁₀
deep discharges more than 80% DOD or discharges beyond final discharge voltages (dependend on discharge current) have to be avoided	
Charging	IU - characteristic I max without limitation
	Float charge U = 2,23 V/cell +-1%
	Boost charge U = 2,35 to 2,40 V/cell
	Temp.Correction factor - 0,004 V/Cell, °K
Gas (H ₂) emissions at 20°C	at 2,23 V 1,5 l/cell/day
	at 2,40 V 6,0 l/cell/day
Ventilation requirement	LA alloy; f1 = 0,5; EN 50272-2
Self-discharge	app. 3% per month at 20°C
Operational temperature Recommended	- 20°C to 55°C
	10°C to 30°C

Constant Current Discharge (Amperes) at 20°C (68°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h
1.90V/cell	161	156	143	108	88	74	65	58	48	42	25	6,04
1.87V/cell	210	197	167	124	100	85	74	63	53	45	26	6,27
1.83V/cell	267	242	197	142	111	93	80	69	58	49	27	6,49
1.80V/cell	318	273	219	152	119	98	85	72	60	50	27	6,62
1.75V/cell	378	316	249	164	125	102	87	73	60	51	28	6,73
1.70V/cell	432	355	267	172	128	104	89	76	62	52	28	6,81

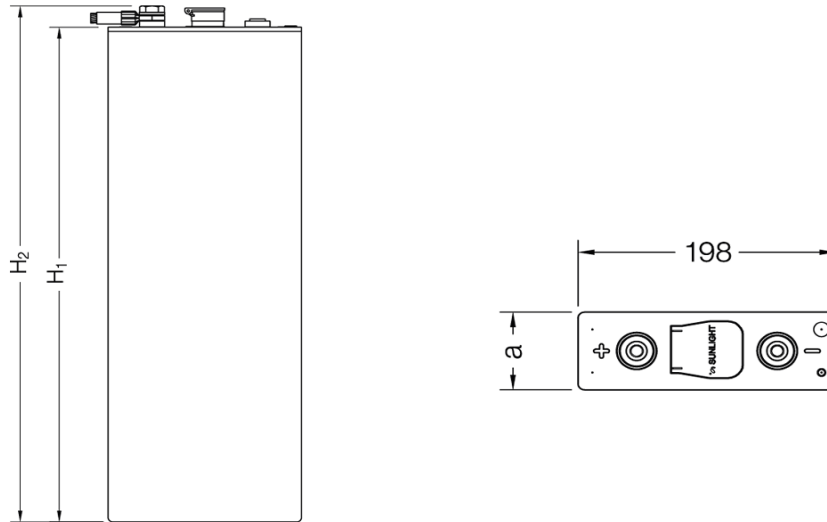
Constant Power Discharge (Watts) at 20°C (68°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h
1.90V/cell	307	297	275	209	170	145	125	113	93	82	49	12,02
1.87V/cell	397	373	318	237	192	164	143	123	103	89	51	12,29
1.83V/cell	491	449	365	266	212	177	153	132	111	94	52	12,73
1.80V/cell	580	500	403	282	223	186	160	137	115	96	53	12,97
1.75V/cell	673	570	453	303	233	191	163	137	115	97	54	13,12
1.70V/cell	752	633	480	316	238	194	168	142	119	98	53	12,94

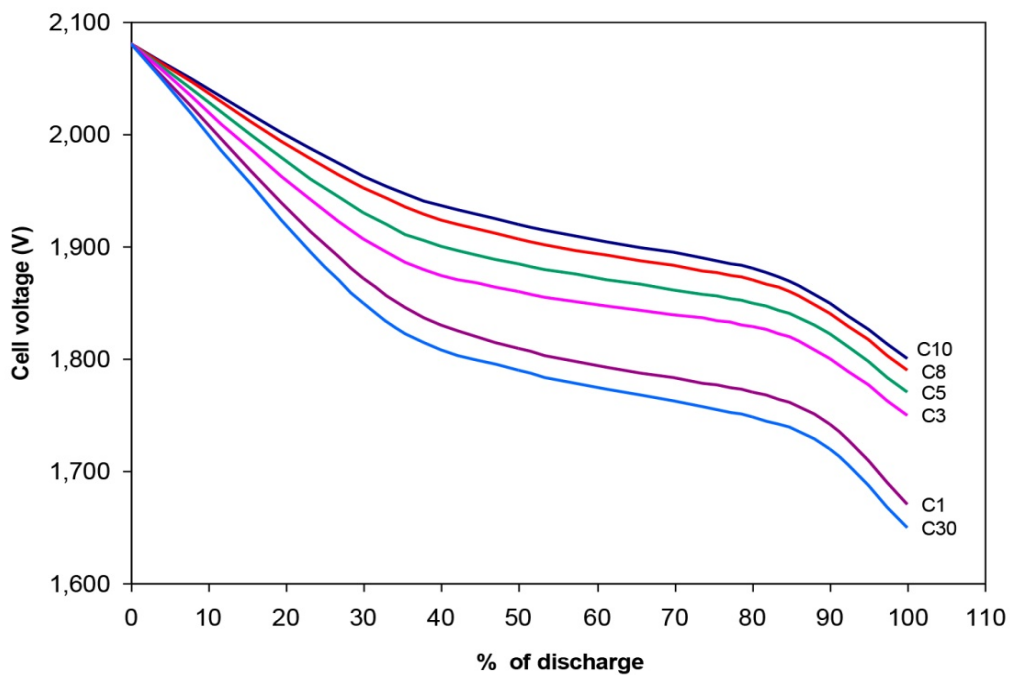


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Dimension



Cell voltage of UOPzS cells during constant current discharge at different rates of discharge



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