

**8 UOPzS 1000**



**Specification**

Nominal Voltage	2,0 V
Nominal Capacity (C <sub>10</sub> )	1000 AH
Discharge current	C <sub>10</sub> /10h = 100 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 <sub>100</sub>	1300 Ah (at 25°C, U <sub>f</sub> = 1,85V/cell)
Specified torque for poll screws	20 ± 1 Nm
Dimensions of the cell	Length 198 mm (7.80 inches)
	Width 191 mm (7.52 inches)
	Height 613 mm (24.13 inches)
Weight of the cell ( ± 5%)	With acid 58,1 kg
	Without acid 39,6 kg
Recommended dept of discharge	< 80% C <sub>10</sub>
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 <sub>2</sub> ) emissions at 20°C	at 2,23 V 3,0 l/cell/day
	at 2,40 V 12,1 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)**

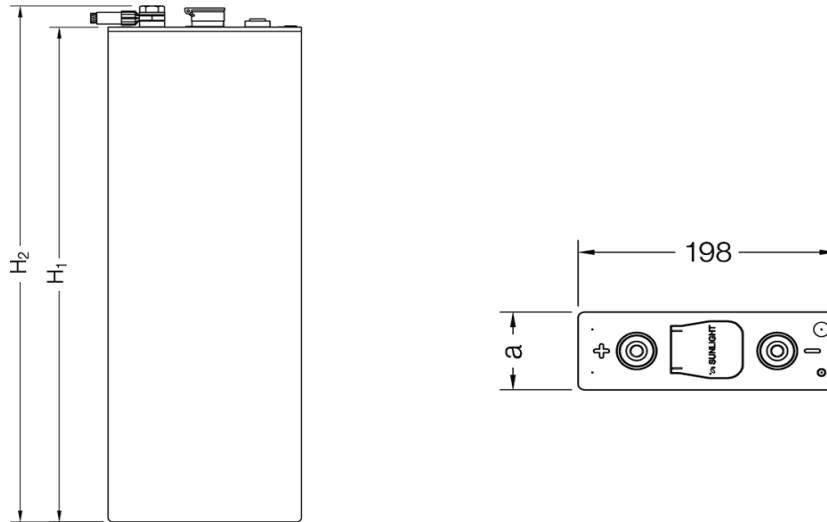
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h
1.90V/cell	323	311	287	217	175	149	129	115	95	83	50	12,08
1.87V/cell	420	395	334	249	200	169	147	127	106	91	52	12,54
1.83V/cell	534	483	395	283	223	187	160	138	115	97	53	12,99
1.80V/cell	637	547	438	303	237	197	169	145	120	100	54	13,24
1.75V/cell	757	633	497	328	250	205	173	145	120	102	55	13,45
1.70V/cell	865	711	533	343	257	208	179	151	124	103	56	13,62

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

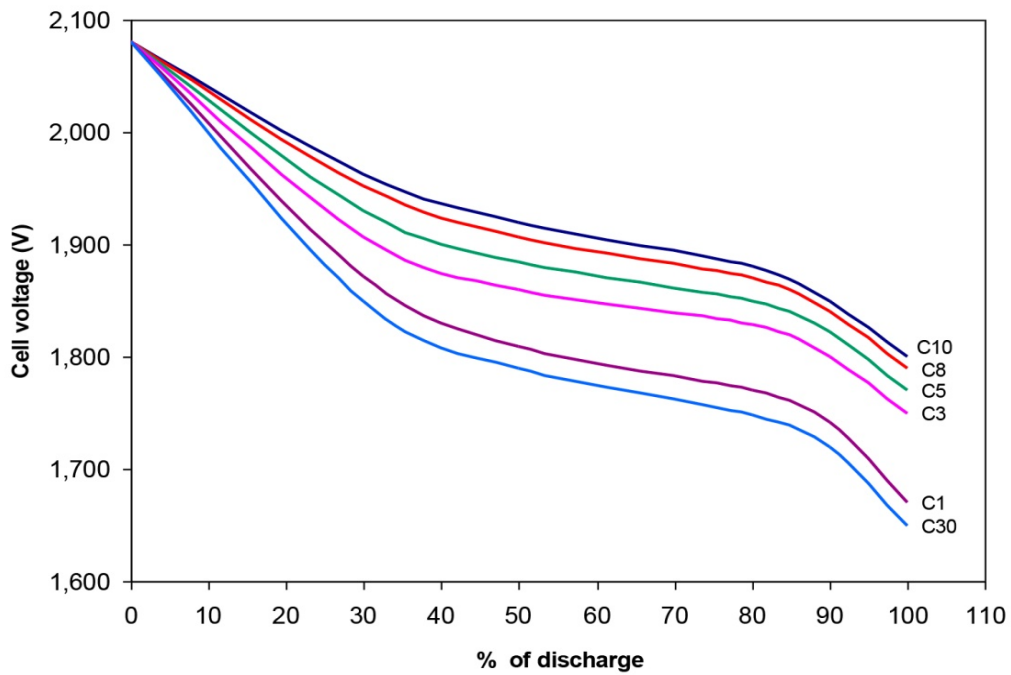
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h
1.90V/cell	614	595	550	419	340	290	251	225	186	164	99	24,05
1.87V/cell	794	746	635	475	384	328	286	246	206	178	101	24,58
1.83V/cell	982	898	730	532	423	355	306	265	222	187	105	25,45
1.80V/cell	1159	1001	806	564	446	372	320	275	230	192	107	25,95
1.75V/cell	1347	1139	905	607	466	383	326	275	230	194	108	26,24
1.70V/cell	1504	1265	960	631	475	387	336	284	238	196	106	25,87

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**Dimension**



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



ETL SEMKO

