

5 UOPzS 442



Specification	
Nominal Voltage	2,0 V
Nominal Capacity (C ₁₀)	442 AH
Discharge current	C ₁₀ /10h = 44,2 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	575 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 119 mm (4.69 inches)
	Height 478 mm (18.82 inches)
Weight of the cell (± 5%)	With acid 28,0 kg
	Without acid 18,7 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 1,3 l/cell/day
	at 2,40 V 5,3 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	143	138	127	96	78	66	57	51	42	37	22	5,34
1.87V/cell	186	174	148	110	88	75	65	56	47	40	23	5,54
1.83V/cell	236	213	174	125	98	83	71	61	51	43	24	5,74
1.80V/cell	282	242	194	134	105	87	75	64	53	44	24	5,85
1.75V/cell	334	280	220	145	111	90	77	64	53	45	24	5,95
1.70V/cell	382	314	236	152	114	92	79	67	55	46	25	6,02

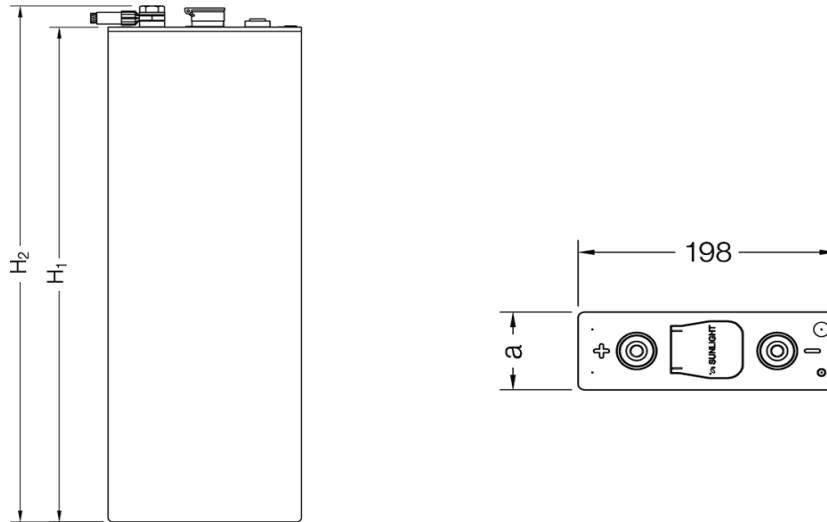
Constant Power Discharge (Watts) at 20°C (68°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	100h
1.90V/cell	271	263	243	185	150	128	111	99	82	73	44	10,63
1.87V/cell	351	330	281	210	170	145	126	109	91	79	45	10,87
1.83V/cell	434	397	323	235	187	157	135	117	98	83	46	11,25
1.80V/cell	512	442	356	249	197	164	141	121	102	85	47	11,47
1.75V/cell	595	504	400	268	206	169	144	121	102	86	48	11,60
1.70V/cell	665	559	424	279	210	171	149	126	105	87	47	11,43



5 UOPzS 442

Dimension



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

