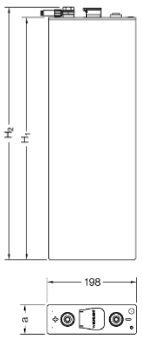
SUNLIGHT
POWER IS KNOWLEDGE

RES SOPzS

DATASHEET

2V RES 5 SOPzS 605

Technical Characteristics	
Capacity (Ah), C120 (1,85 V/cell, 20°C)	605
Capacity (Ah), C10 (1,80 V/cell, 20°C)	422
Number of plates (+) per cell	5
Floating voltage set point (V/cell)	2,23
Recommended Boost Charge Voltage (V/cell)	2,40
Recommended End of Discharge voltage for 10-hr rate (V/cell)	1,80
Short circuit current (A)	3170
Internal resistance (mOhm/cell)	0,64
Number of cycles at 60% depth of discharge (20°C)	2000
Self-discharge rate per month at 20 °C	Approx. 2,5%
Dimensions in mm (LxWxH1/H2) H1 = Height to the lid H2 = Height to the pole	198 x 119 x 478 x 502
Weight (kg)	Wet: 28,0 / Dry: 18,7
Type of poles	M10
Recommended Temperature	10°C - 30°C



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

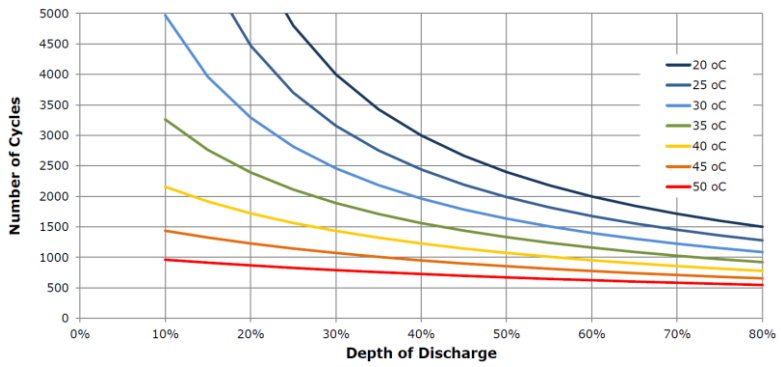
Constant Current Discharge in A (at 20°C)

	Discharge Time										
End Voltage (V/cell)	10 h	12 h	20 h	24 h	48 h	50 h	72 h	100 h	120 h	168 h	240 h
1,80 V	42,2	36,7	24,5	21,1	11,8	11,4	8,28	6,17	5,23	3,82	2,73
1,83 V	40,6	35,4	23,8	20,5	11,5	11,1	8,11	6,06	5,13	3,76	2,69
1,85 V	39,2	34,2	23,0	19,9	11,2	10,9	7,94	5,94	5,04	3,70	2,65
1,90 V	33,8	29,6	20,2	17,6	10,1	9,77	7,21	5,44	4,63	3,43	2,47
1,92 V	30,9	27,2	18,7	16,3	9,45	9,15	6,78	5,14	4,39	3,26	2,35
2,00 V	15,9	14,3	10,4	9,26	5,76	5,59	4,27	3,29	2,85	2,12	1,51

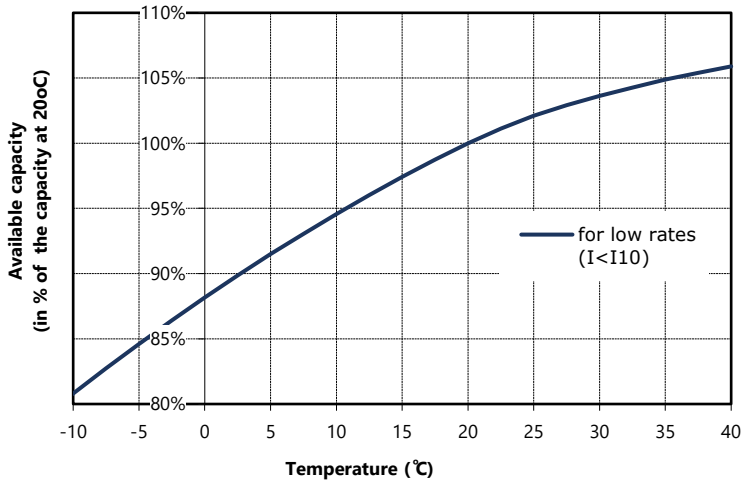
Constant Power Discharge in W/cell (at 20°C)

	Discharge Time										
End Voltage (V/cell)	10 h	12 h	20 h	24 h	48 h	50 h	72 h	100 h	120 h	168 h	240 h
1,80 V	79,4	69,4	46,8	40,5	23,0	22,2	16,3	12,2	10,4	7,64	5,49
1,83 V	76,7	67,1	45,5	39,4	22,5	21,7	16,0	12,0	10,2	7,53	5,42
1,85 V	74,2	65,0	44,2	38,4	22,0	21,2	15,6	11,8	10,0	7,42	5,34
1,90 V	64,7	56,9	39,1	34,1	19,9	19,2	14,3	10,9	9,28	6,91	5,01
1,92 V	59,4	52,4	36,3	31,7	18,7	18,1	13,5	10,3	8,82	6,58	4,78
2,00 V	31,4	28,3	20,7	18,5	11,6	11,3	8,69	6,74	5,82	4,36	3,15

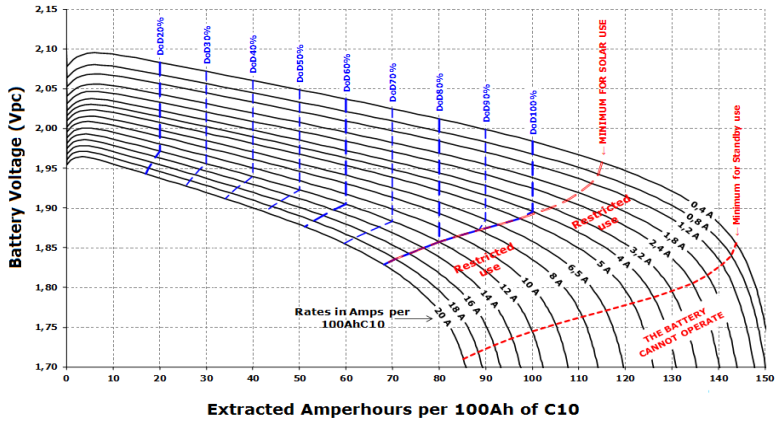
Expected Number of Cycles vs. DOD



Capacity vs. Temperature



Low-voltage Disconnect Settings



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