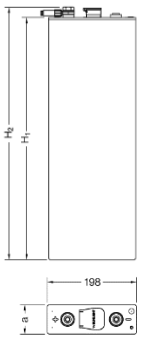
SUNLIGHT
POWER IS KNOWLEDGE

RES SOPzS

DATASHEET

2V RES 8 SOPzS 1380

Technical Characteristics	
Capacity (Ah), C120 (1,85 V/cell, 20°C)	1382
Capacity (Ah), C10 (1,80 V/cell, 20°C)	991
Number of plates (+) per cell	8
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)	5790
Internal resistance (mOhm/cell)	0,35
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 including connectors & bolts	198 x 192 x 613 x 637
Weight (kg)	Wet: 58,1 / Dry: 39,6
Type of poles	M10
Recommended Temperature	10°C - 30°C



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

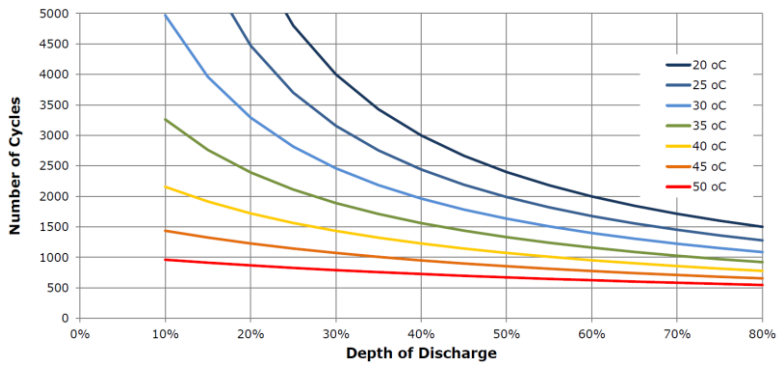
Constant Current Discharge in A (at 20°C)

	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	99,1	86,2	57,5	49,5	27,5	26,5	19,1	14,1	11,9	8,64	6,11
1,83 V	94,5	82,5	55,4	47,8	26,8	25,8	18,7	13,9	11,7	8,52	6,03
1,85 V	90,5	79,1	53,4	46,2	26,1	25,2	18,3	13,6	11,5	8,40	5,96
1,90 V	76,4	67,2	46,2	40,3	23,3	22,6	16,7	12,5	10,7	7,86	5,63
1,92 V	69,1	61,0	42,4	37,1	21,8	21,1	15,7	11,9	10,2	7,51	5,40
2,00 V	35,0	31,8	23,9	21,4	13,7	13,4	10,3	8,04	6,92	5,17	3,73

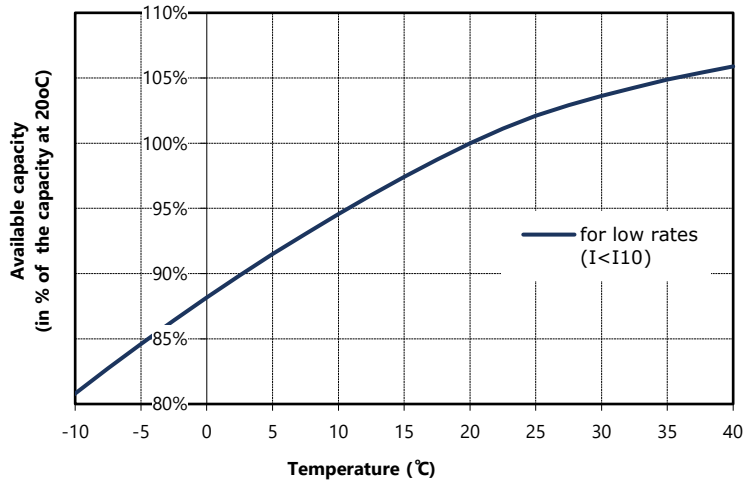
Constant Power Discharge in W/cell (at 20°C)

	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	185	162	109	94,6	53,3	51,5	37,5	28,0	23,7	17,3	12,4
1,83 V	178	156	106	91,6	52,1	50,4	36,8	27,5	23,3	17,1	12,2
1,85 V	171	150	102	88,7	50,9	49,2	36,1	27,1	23,0	16,9	12,1
1,90 V	146	129	89,3	78,1	45,9	44,5	33,1	25,1	21,4	15,9	11,5
1,92 V	133	117	82,4	72,3	43,1	41,8	31,3	23,9	20,5	15,2	11,0
2,00 V	69,0	62,8	47,5	42,8	27,8	27,0	21,0	16,5	14,2	10,7	7,79

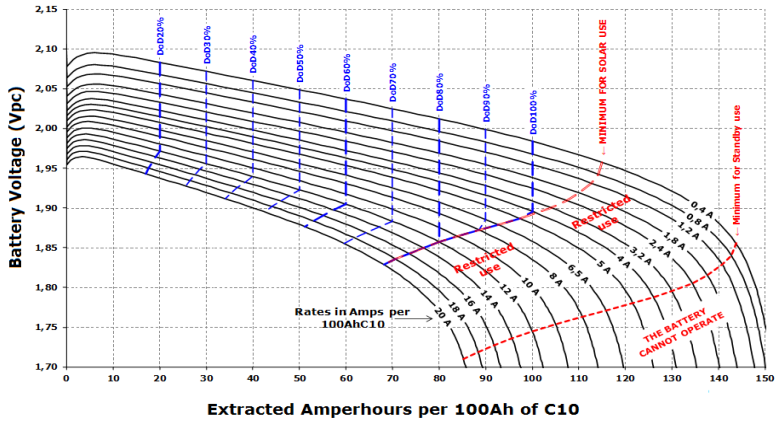
Expected Number of Cycles vs. DOD



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.*