SUNLIGHT
POWER IS KNOWLEDGE

RES SOPzV

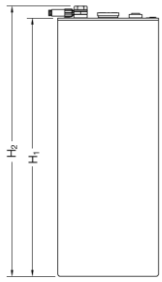
DATASHEET

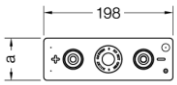
2V RES 4 SOPzV 565

Technical Characteristics

Capacity (Ah), C120 (1,85 V/cell, 20°C)	568
Capacity (Ah), C10 (1,80 V/cell, 20°C)	458
Number of plates (+) per cell	4
Floating voltage set point (V/cell)	2,25
Recommended Boost Charge Voltage (V/cell)	2,35
Recommended End of Discharge voltage for 10-hr rate (V/cell)	1,80
Short circuit current (A)	3780
Internal resistance (mOhm/cell)	0,54
Number of cycles at 60% depth of discharge (20°C)	2000
Self-discharge rate per month at 20 °C	Approx. 2%
Dimensions in mm (LxWxH1/H2) H1 = Height to the lid H2 = Height to the pole	198 x 83 x 568 x 592
Weight (kg)	28,7
Type of poles	M10
Recommended Temperature	10°C - 30°C







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

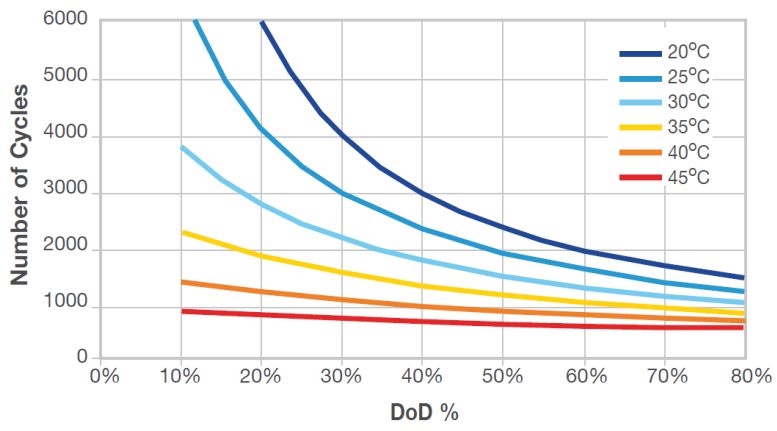
Constant Current Discharge in A (at 20°C)

	Discharge Time											
End Voltage (V/cell)	**8h**	**10 h**	**12 h**	**20 h**	**24 h**	**48 h**	**50 h**	**72 h**	**100 h**	**120 h**	**168 h**	**240 h**
1,70 V	58,1	48,3	41,4	26,6	22,6	12,1	11,6	8,26	6,04	5,08	3,67	2,60
1,80 V	54,9	45,8	39,4	25,4	21,7	11,6	11,2	7,99	5,86	4,92	3,57	2,53
1,83 V	52,7	44,1	37,9	24,6	21,0	11,3	10,9	7,81	5,74	4,83	3,50	2,49
1,85 V	50,8	42,5	36,7	23,9	20,4	11,1	10,7	7,63	5,62	4,73	3,44	2,45
1,90 V	44,9	37,7	32,6	21,4	18,3	10,0	9,67	6,96	5,15	4,35	3,18	2,28
1,92 V	42,0	35,3	30,6	20,1	17,3	9,51	9,17	6,62	4,91	4,15	3,04	2,18
2,00 V	27,6	23,5	20,6	13,9	12,1	6,85	6,62	4,85	3,65	3,11	2,31	1,68

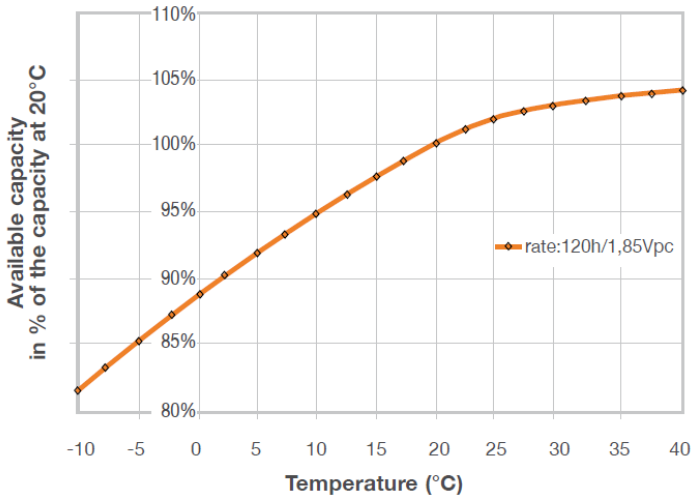
Constant Power Discharge in W/cell (at 20°C)

	Discharge Time											
End Voltage (V/cell)	**8h**	**10 h**	**12 h**	**20 h**	**24 h**	**48 h**	**50 h**	**72 h**	**100 h**	**120 h**	**168 h**	**240 h**
1,70 V	110	92,0	79,2	51,4	43,9	23,7	22,9	16,4	12,1	10,16	7,39	5,27
1,80 V	105	87,8	75,8	49,5	42,3	23,0	22,2	15,9	11,7	9,89	7,21	5,15
1,83 V	101	84,7	73,3	48,0	41,1	22,5	21,7	15,6	11,5	9,72	7,09	5,07
1,85 V	97,6	82,1	71,0	46,7	40,0	22,0	21,2	15,3	11,3	9,55	6,98	5,00
1,90 V	87,0	73,4	63,7	42,2	36,2	20,1	19,4	14,0	10,4	8,85	6,50	4,68
1,92 V	81,8	69,2	60,1	39,9	34,3	19,1	18,5	13,4	10,0	8,47	6,24	4,50
2,00 V	55,0	47,0	41,2	28,1	24,4	14,0	13,5	10,0	7,54	6,44	4,80	3,51

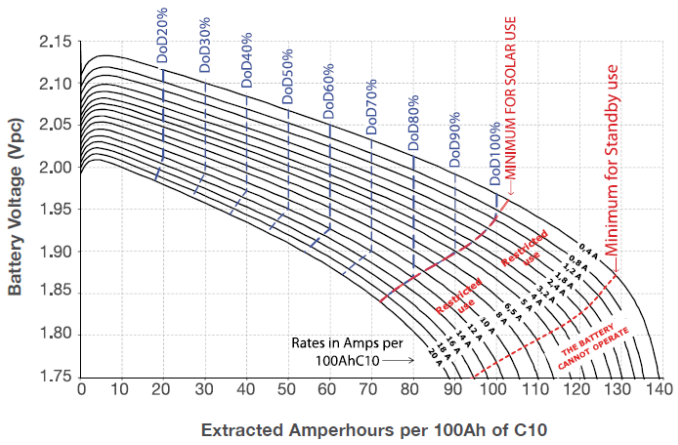
Expected Number of Cycles vs. DOD



Capacity vs. Temperature



Low-voltage Disconnect Settings



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