

## OPzV 450 Datasheet

### Technical Characteristics

Capacity (Ah), C120 (1,85 V/cell, 20°C)	435	
Capacity (Ah), C10 (1,80 V/cell, 20°C)	336	
Number of plates (+) per cell	6	
Floating voltage set point (V/cell)	2,25	
Maximum initial charge current (A)	0,3 C10	
Recommended Boost Charge Voltage (V/cell)	2,35	
Recommended End of Discharge voltage for 120-hr rate (V/cell)	1,85	
Short circuit current (A)	3380	
Internal resistance (mOhm/cell)	0,600	
Number of cycles at 50%/60% depth of discharge (at 20°C)	3.000/2.500	
Number of cycles at 50%/60% depth of discharge (at 25°C)	2.400/2.100	
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	145 x 206 x 355 / 382	
Weight (kg)	28	
Type and number of poles	M10 / 2	

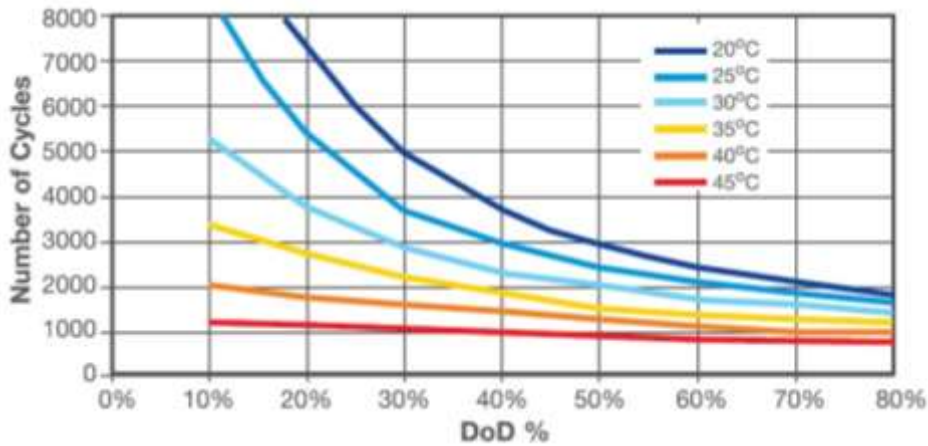
### Constant Current Discharge in A (at 20°C)

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
<b>1,80 V</b>	33,60	28,95	18,88	16,16	8,80	8,49	6,11	4,52	3,81	2,77	1,96
<b>1,83 V</b>	32,27	27,85	18,24	15,62	8,55	8,25	5,95	4,40	3,72	2,71	1,92
<b>1,85 V</b>	31,09	26,87	17,64	15,13	8,31	8,01	5,79	4,29	3,63	2,65	1,88
<b>1,90 V</b>	27,17	23,55	15,59	13,40	7,44	7,18	5,22	3,89	3,29	2,41	1,72
<b>1,92 V</b>	25,17	21,86	14,54	12,52	6,99	6,75	4,92	3,67	3,11	2,29	1,63
<b>2,00 V</b>	14,73	12,98	8,99	7,86	4,59	4,45	3,30	2,51	2,12	1,55	1,10

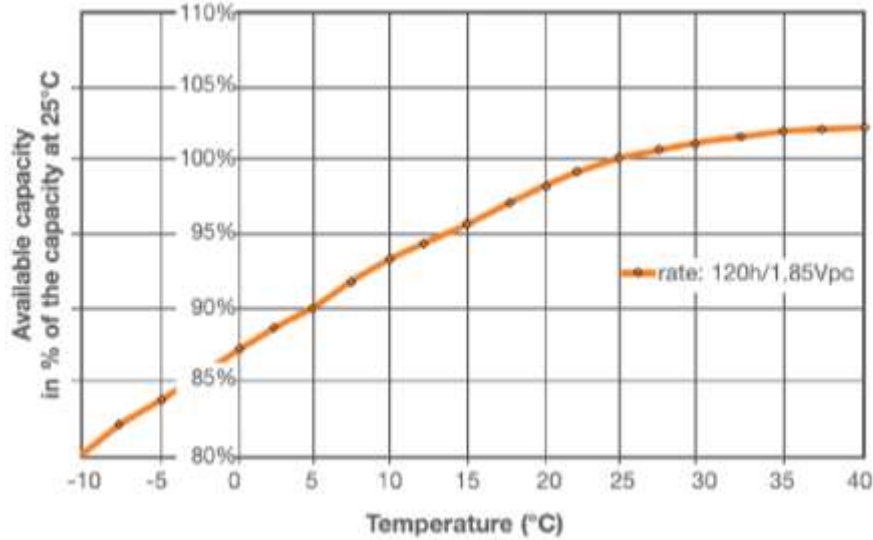
### Constant Power Discharge in W/cell (at 20°C)

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
<b>1,80 V</b>	63,90	55,26	36,39	31,23	17,22	16,62	12,04	8,95	7,57	5,53	3,95
<b>1,83 V</b>	61,59	53,34	35,24	30,29	16,77	16,18	11,74	8,74	7,40	5,42	3,87
<b>1,85 V</b>	59,52	51,60	34,18	29,40	16,33	15,77	11,46	8,55	7,24	5,31	3,80
<b>1,90 V</b>	52,50	45,65	30,46	26,27	14,74	14,24	10,41	7,79	6,62	4,87	3,50
<b>1,92 V</b>	48,87	42,56	28,53	24,64	13,91	13,44	9,85	7,39	6,29	4,64	3,33
<b>1,80 V</b>	63,90	55,26	36,39	31,23	17,22	16,62	12,04	8,95	7,57	5,53	3,95

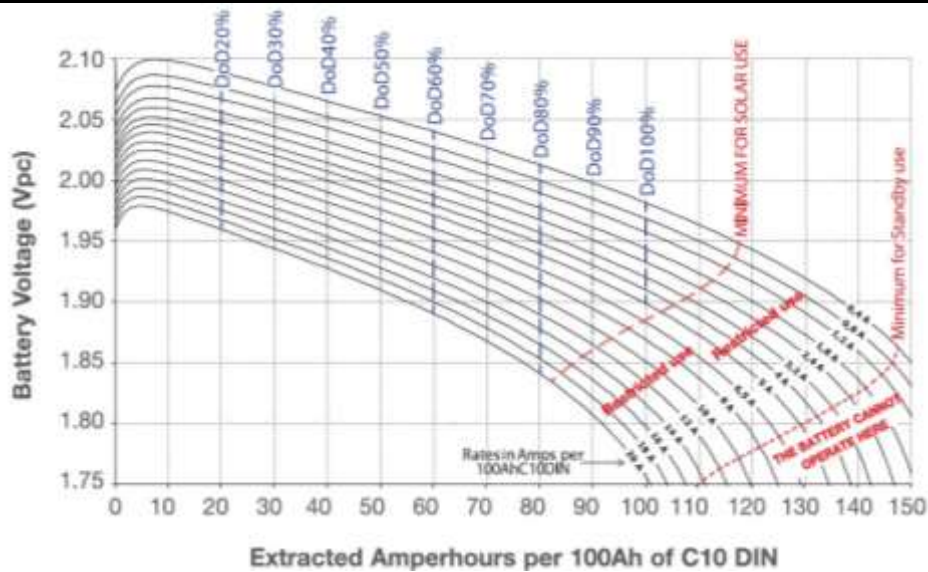
### Expected Number of Cycles vs. DoD



### Capacity vs. Temperature



### Guidance for the initial Low-voltage Disconnect Settings (25°C Reference Temperature)



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