

OPzV 1300 Datasheet

Technical Characteristics

| | | |
|--|-----------------------|--|
| Capacity (Ah), C120 (1,85 V/cell, 20°C) | 1247 | |
| Capacity (Ah), C10 (1,80 V/cell, 20°C) | 920 | |
| Number of plates (+) per cell | 8 | |
| 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) | 5980 | |
| Internal resistance (mOhm/cell) | 0,340 | |
| 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 | 191 x 210 x 646 / 673 | |
| Weight (kg) | 68 | |
| Type and number of poles | M10 / 4 | |

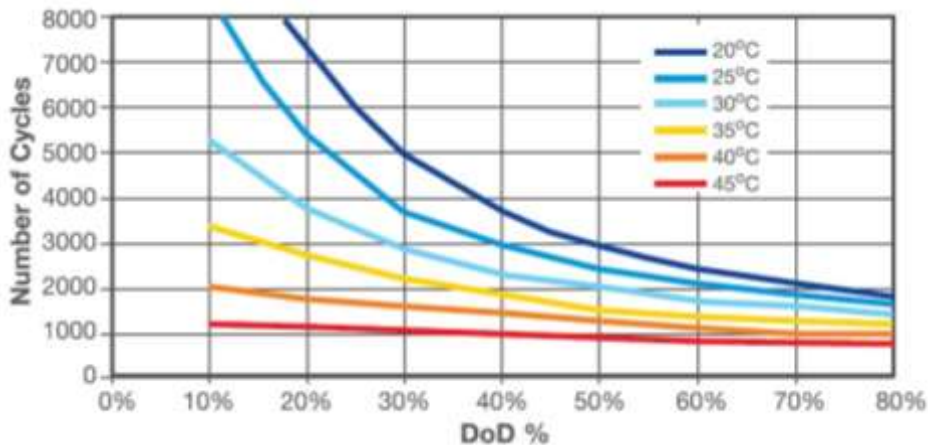
Constant Current Discharge in A (at 20°C)

| 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 | 92,00 | 79,53 | 52,28 | 44,86 | 24,73 | 23,86 | 17,29 | 12,87 | 10,89 | 7,97 | 5,69 |
| 1,83 V | 87,59 | 75,91 | 50,22 | 43,18 | 23,97 | 23,14 | 16,82 | 12,55 | 10,64 | 7,80 | 5,57 |
| 1,85 V | 83,92 | 72,85 | 48,40 | 41,67 | 23,26 | 22,46 | 16,37 | 12,24 | 10,39 | 7,64 | 5,46 |
| 1,90 V | 72,20 | 63,00 | 42,40 | 36,67 | 20,79 | 20,09 | 14,76 | 11,11 | 9,46 | 6,99 | 5,03 |
| 1,92 V | 66,42 | 58,12 | 39,41 | 34,16 | 19,54 | 18,89 | 13,93 | 10,52 | 8,97 | 6,65 | 4,79 |
| 2,00 V | 37,88 | 33,80 | 24,19 | 21,36 | 12,99 | 12,59 | 9,50 | 7,29 | 6,25 | 4,66 | 3,41 |

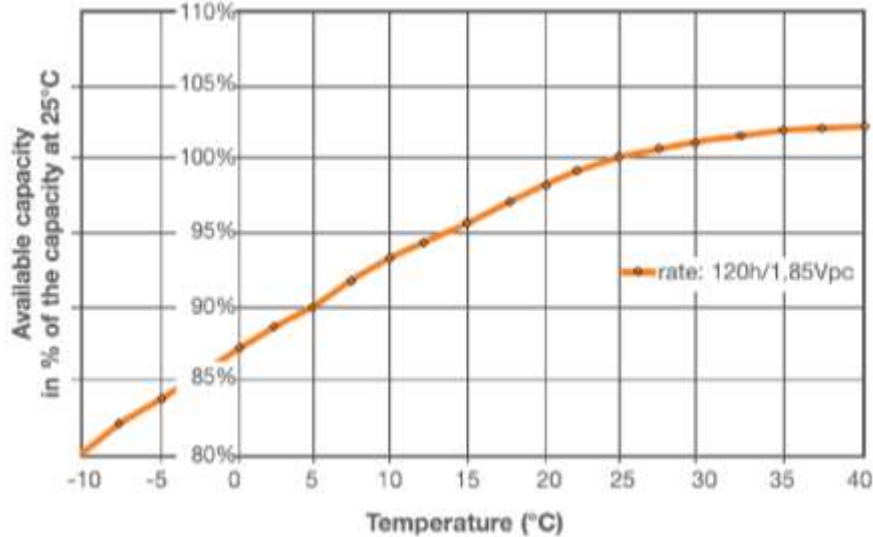
Constant Power Discharge in W/cell (at 20°C)

| 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 | 173,65 | 150,77 | 100,23 | 86,33 | 48,25 | 46,60 | 34,01 | 25,47 | 21,64 | 15,94 | 11,44 |
| 1,83 V | 166,05 | 144,50 | 96,61 | 83,36 | 46,90 | 45,31 | 33,17 | 24,90 | 21,18 | 15,63 | 11,24 |
| 1,85 V | 159,68 | 139,15 | 93,38 | 80,69 | 45,62 | 44,09 | 32,36 | 24,35 | 20,74 | 15,33 | 11,04 |
| 1,90 V | 138,93 | 121,63 | 82,59 | 71,64 | 41,11 | 39,76 | 29,40 | 22,26 | 19,02 | 14,14 | 10,23 |
| 1,92 V | 128,48 | 112,76 | 77,09 | 67,03 | 38,79 | 37,53 | 27,86 | 21,15 | 18,09 | 13,49 | 9,77 |
| 2,00 V | 74,99 | 67,03 | 48,26 | 42,71 | 26,27 | 25,48 | 19,37 | 14,89 | 12,86 | 9,64 | 7,15 |

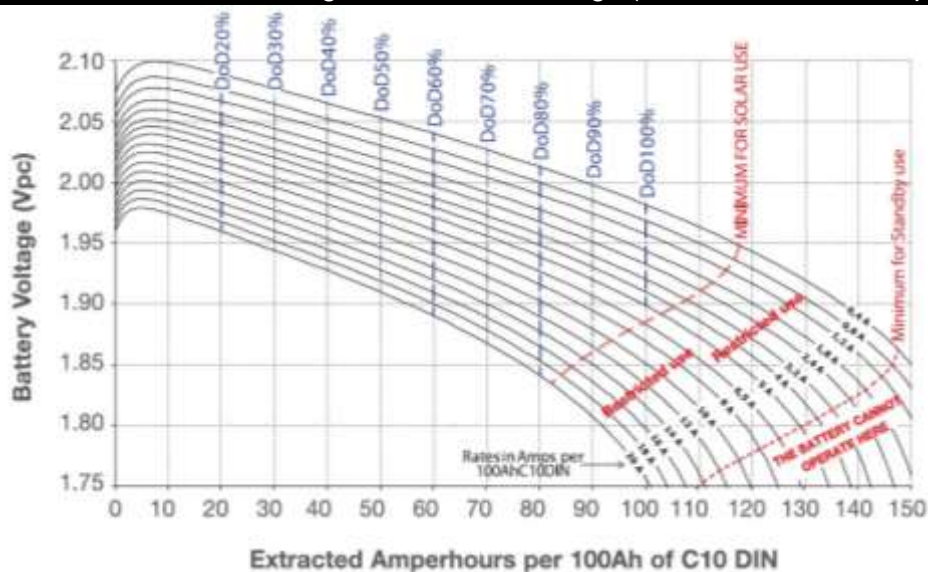
Expected Number of Cycles vs. DoD



Capacity vs. Temperature



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



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