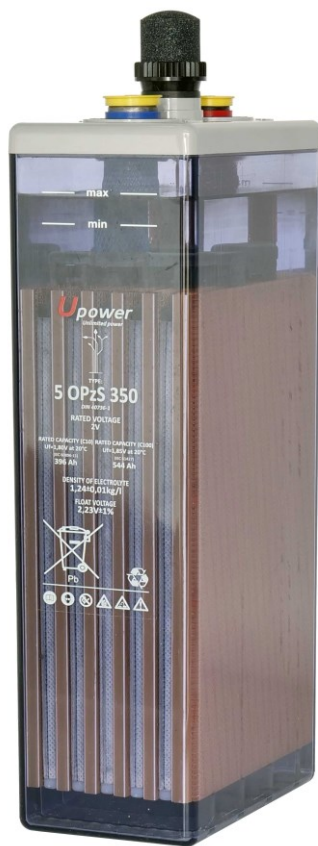


**5 OPzS 350**



| Specification           |  |
|-------------------------|--|
| Float Charge            | U = 2.23 V/cell ± 1%, between 10°C and 30°C<br>$\Delta U/\Delta T = -0.004$ V/K below 10°C in the monthly average            |
| Boost Charge            | U = 2.35 to 2.40 V/cell, time limited  |
| Dimension               | Length 124 mm<br>Width 206 mm<br>Height 471 mm   |
| Weight                  | Dry: 21 kg      Wet: 28.7 kg   |
| Self Discharge          | Approx. 2% per month at 20°C   |
| Positive Electrode      | Tubular plate with low antimony alloy (< 2 %)  |
| Negative Electrode      | Flat with long life expander active material   |
| Separation              | Microporous separator  |
| Electrolyte             | Sulphuric acid of 1.24 kg/l at 20°C  |
| Container               | High impact, transparent SAN   |
| Lid                     | ABS (SAN)* in grey color   |
| Blocks with Blind Cells | 4V, 6V, 8V, 10V  |
| Plugs                   | Ceramic plugs according to DIN 40740   |
| Pole Sealing            | 100 % gas-and electrolytetight, sliding-pole   |
| Connector               | Flexible insulated copper cable with cross-section of 35, 50, 70, 95 or 120 mm <sup>2</sup> (35, 50 or 70 mm <sup>2</sup> )* |
| Kind of Protection      | IP 25 regarding DIN 40050, touch protected according VBG 4   |
| Reference Temperature   | 20°C at C10 (1.80 V/cell) and 25°C at C100 (1.85 V/cell)   |
| Initial Capacity        | 100%<br>Normally up to 80%   |
| Depth of Discharge      | More than 80% DOD or discharges beyond final discharge voltages (dependent on discharge current) have to be avoided          |

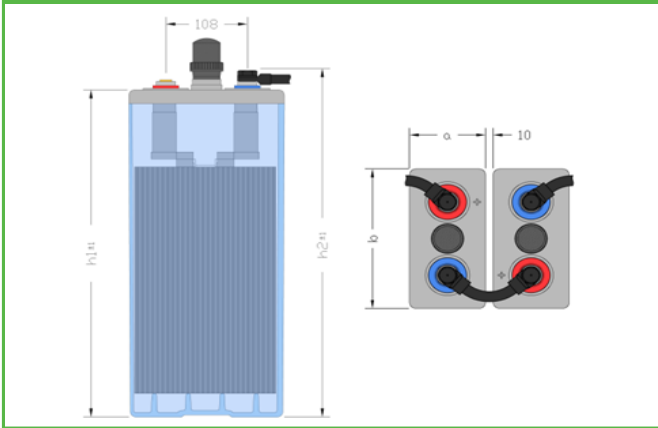
| Constant Current Discharge (Amperes) at 20°C (68°F) |       |       |       |       |      |      |      |      |      |      |      |
|---|-------|-------|-------|-------|------|------|------|------|------|------|------|
| F.V/Time  | 15min | 30min | 1h    | 2h    | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
| 1.90V/cell  | 130.0 | 126.0 | 113.3 | 83.2  | 67.4 | 55.8 | 49.5 | 44.4 | 37.1 | 32.4 | 19.3 |
| 1.87V/cell  | 177.2 | 161.3 | 130.8 | 96.3  | 76.5 | 63.6 | 55.8 | 48.6 | 40.7 | 34.4 | 19.6 |
| 1.83V/cell  | 220.5 | 193.0 | 153.1 | 108.2 | 85.2 | 70.1 | 61.0 | 53.1 | 43.9 | 36.8 | 20.8 |
| 1.80V/cell  | 251.1 | 215.7 | 166.6 | 115.3 | 89.9 | 74.1 | 64.0 | 55.4 | 45.3 | 38.0 | 21.2 |
| 1.75V/cell  | 297.2 | 244.1 | 183.2 | 123.5 | 93.5 | 76.3 | 65.9 | 56.1 | 46.2 | 38.5 | 21.3 |
| 1.70V/cell  | 336.9 | 268.8 | 193.2 | 125.2 | 94.5 | 76.7 | 67.5 | 58.1 | 47.5 | 38.4 | 21.2 |

| Constant Power Discharge (Watts) at 20°C (68°F) |       |       |       |       |       |       |       |       |      |      |      |
|---|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| F.V/Time  | 15min | 30min | 1h    | 2h    | 3h    | 4h    | 5h    | 6h    | 8h   | 10h  | 20h  |
| 1.90V/cell                                      | 247.4 | 240.4 | 217.3 | 160.5 | 130.9 | 108.6 | 96.2  | 86.7  | 72.3 | 63.7 | 38.4 |
| 1.87V/cell                                      | 334.4 | 304.4 | 247.9 | 183.8 | 146.7 | 123.1 | 108.3 | 94.2  | 79.3 | 67.2 | 38.4 |
| 1.83V/cell                                      | 406.4 | 357.9 | 283.2 | 203.2 | 161.6 | 133.3 | 116.6 | 101.9 | 84.8 | 71.1 | 40.8 |
| 1.80V/cell                                      | 457.7 | 393.8 | 306.7 | 214.7 | 168.8 | 139.8 | 121.1 | 105.4 | 87.0 | 72.9 | 41.6 |
| 1.75V/cell                                      | 529.6 | 440.3 | 333.6 | 227.9 | 174.1 | 142.9 | 124.2 | 105.8 | 88.1 | 73.3 | 41.6 |
| 1.70V/cell                                      | 584.8 | 478.8 | 348.5 | 230.0 | 174.3 | 142.9 | 126.7 | 109.4 | 47.5 | 72.8 | 40.4 |

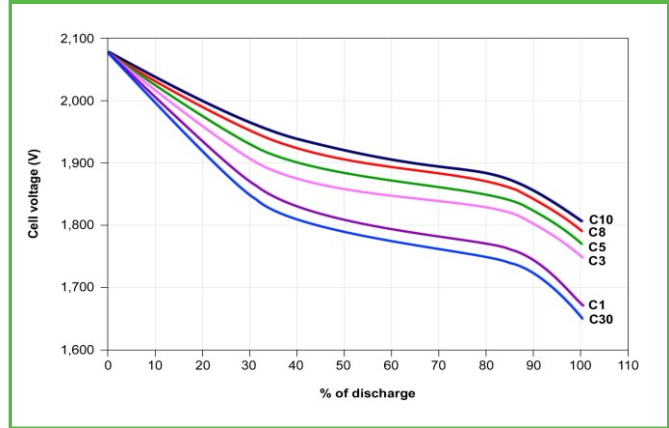


**5 OPzS 350**

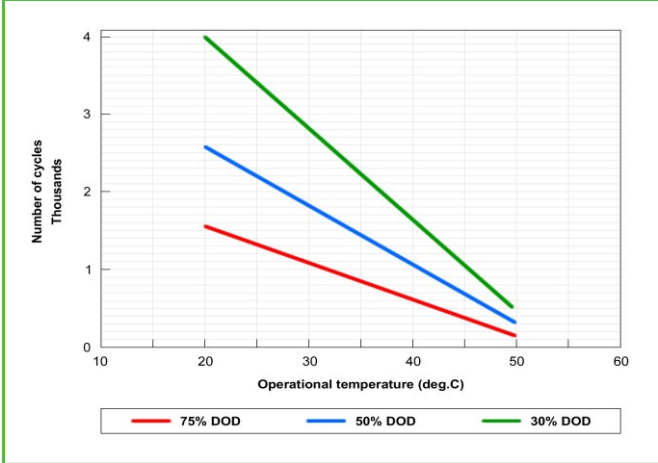
**Dimension**



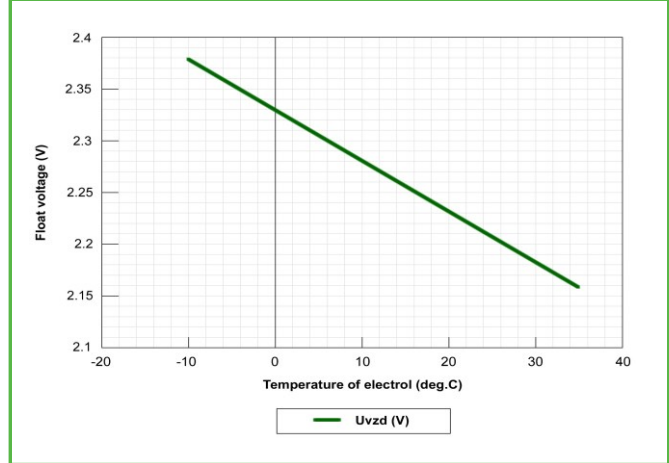
**Voltage vs. % of discharge at Cx**



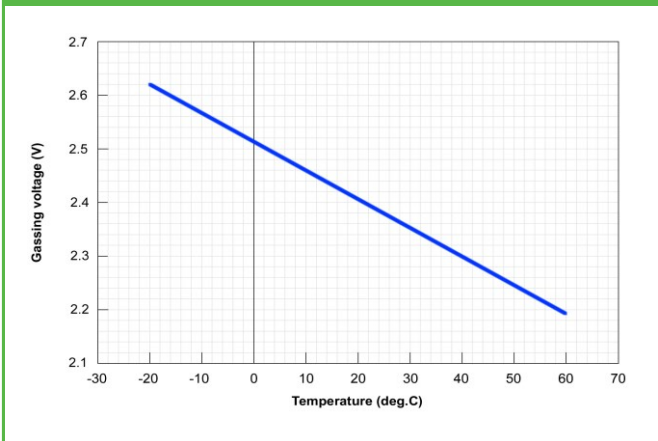
**Lifetime in cycles vs. temperature at DOD**



**Float voltage as f (T)**



**Gassing voltage as f (T)**



**Charging of OPzS cells with IU charger**

