

6 OPzS 300



| Specification | |
|-------------------------|--|
| Float Charge | U = 2.23 V/cell ± 1%, between 10°C and 30°C $\Delta U/\Delta T = -0.004$ V/K below 10°C in the monthly average |
| Boost Charge | U = 2.35 to 2.40 V/cell, time limited |
| Dimension | Length 145 mm Width 206 mm Height 355 mm |
| Weight | Dry: 18.1 kg Wet: 24.9 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 ² (35, 50 or 70 mm ²)* |
| 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% 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 |

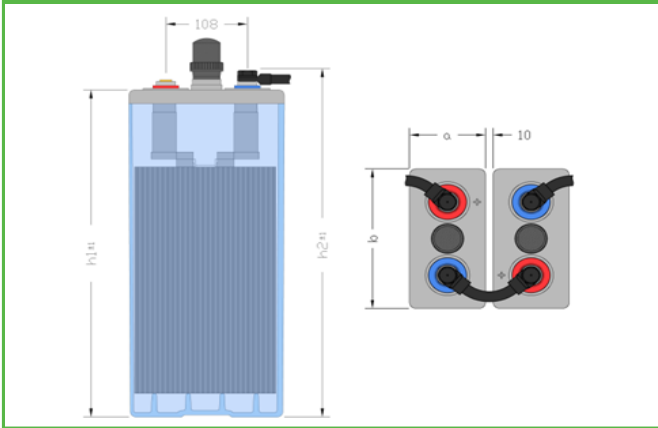
| Constant Current Discharge (Amperes) at 20°C (68°F) | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|------|------|------|------|------|------|
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.90V/cell | 127.3 | 123.5 | 100.4 | 71.9 | 57.4 | 48.6 | 42.1 | 38.2 | 31.1 | 27.1 | 14.3 |
| 1.87V/cell | 174.2 | 147.3 | 114.8 | 82.2 | 64.8 | 54.4 | 47.0 | 41.3 | 33.7 | 28.7 | 15.1 |
| 1.83V/cell | 215.2 | 177.2 | 131.8 | 91.5 | 71.4 | 59.0 | 50.5 | 43.8 | 35.9 | 30.7 | 15.5 |
| 1.80V/cell | 245.7 | 197.1 | 143.0 | 96.7 | 75.2 | 62.0 | 53.0 | 46.2 | 37.1 | 31.0 | 17.4 |
| 1.75V/cell | 289.4 | 220.5 | 154.6 | 102.7 | 78.1 | 63.8 | 54.3 | 46.2 | 37.5 | 31.7 | 17.7 |
| 1.70V/cell | 319.1 | 244.2 | 164.7 | 104.6 | 79.7 | 64.3 | 56.0 | 47.9 | 38.7 | 31.9 | 17.9 |

| 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 | 242.2 | 235.6 | 192.5 | 138.8 | 111.5 | 94.4 | 81.8 | 74.6 | 60.7 | 53.3 | 28.4 |
| 1.87V/cell | 328.8 | 278.1 | 217.6 | 156.8 | 124.3 | 105.2 | 91.3 | 80.1 | 65.7 | 56.1 | 29.5 |
| 1.83V/cell | 396.7 | 328.6 | 243.8 | 171.8 | 135.5 | 112.2 | 96.5 | 84.2 | 69.2 | 59.4 | 30.4 |
| 1.80V/cell | 448.0 | 359.9 | 263.2 | 180.1 | 141.1 | 116.9 | 100.1 | 87.7 | 71.2 | 59.5 | 34.1 |
| 1.75V/cell | 515.7 | 397.8 | 281.6 | 189.6 | 145.4 | 119.5 | 102.2 | 87.1 | 71.6 | 60.3 | 34.6 |
| 1.70V/cell | 554.0 | 434.9 | 297.1 | 192.2 | 147.1 | 119.9 | 105.0 | 90.3 | 38.7 | 60.6 | 34.0 |

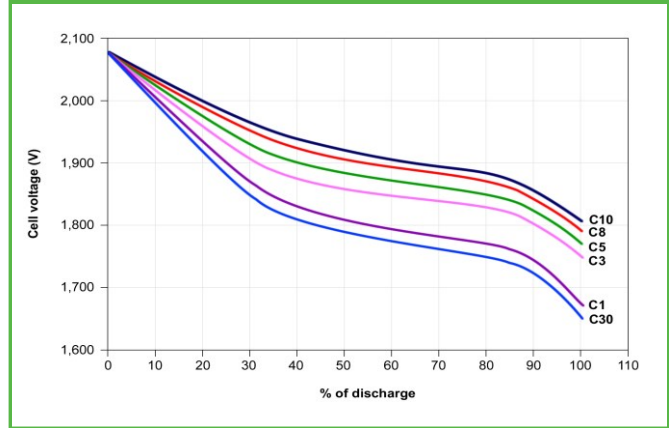


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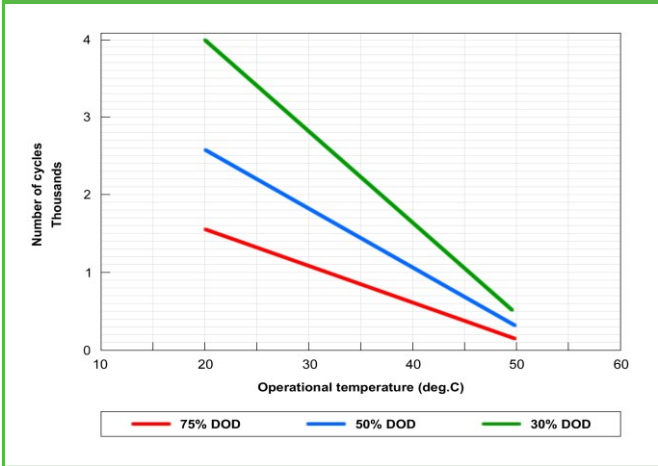
Dimension



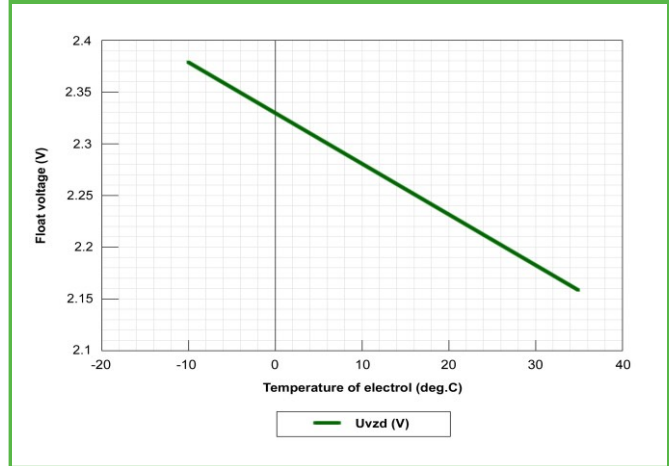
Voltage vs. % of discharge at Cx



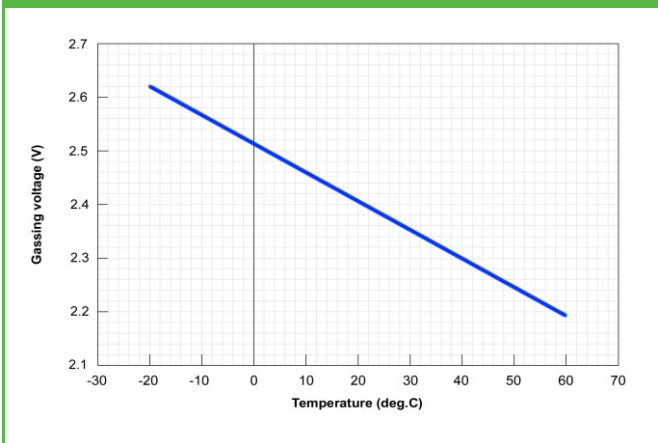
Lifetime in cycles vs. temperature at DOD



Float voltage as f (T)



Gassing voltage as f (T)



Charging of OPzS cells with IU charger

