

6V 6 OPzS 300



Specification

| | |
|-------------------------|---|
| Float Charge | U = 2.23 V/cell ± 1%, between 10°C and 30°C ΔU/ΔT = -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 380 mm Width 205 mm Height 332 mm |
| Weight | Dry: 51 kg Wet: 67 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% |
| Depth of Discharge | Normally up to 80% 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 | 10min | 20min | 30min | 40min | 50min | 1h | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.90V/cell | 148.2 | 148.2 | 132.9 | 122.9 | 108.4 | 98.2 | 67.5 | 52.1 | 41.9 | 35.8 | 31.7 | 27.6 | 26.5 | 25.5 | 25.0 |
| 1.85V/cell | 179.3 | 179.3 | 173.8 | 154.2 | 141.1 | 129.6 | 86.3 | 65.9 | 54.1 | 45.5 | 39.9 | 35.8 | 32.7 | 29.7 | 28.6 |
| 1.80V/cell | 304.5 | 240.1 | 204.4 | 182.0 | 161.5 | 143.6 | 95.0 | 71.6 | 57.2 | 49.1 | 42.2 | 37.8 | 34.8 | 32.2 | 30.7 |
| 1.75V/cell | 337.0 | 275.9 | 230.0 | 199.3 | 175.8 | 158.5 | 102.7 | 74.6 | 60.3 | 51.1 | 44.0 | 38.9 | 35.8 | 32.2 | 30.8 |
| 1.70V/cell | 383.2 | 306.6 | 248.4 | 214.7 | 189.0 | 168.5 | 106.7 | 76.7 | 62.3 | 51.9 | 45.0 | 40.3 | 36.6 | 33.1 | 30.9 |
| 1.65V/cell | 413.9 | 321.8 | 275.9 | 235.1 | 202.4 | 175.5 | 108.7 | 78.8 | 63.4 | 52.6 | 45.2 | 40.5 | 36.8 | 33.3 | 30.9 |

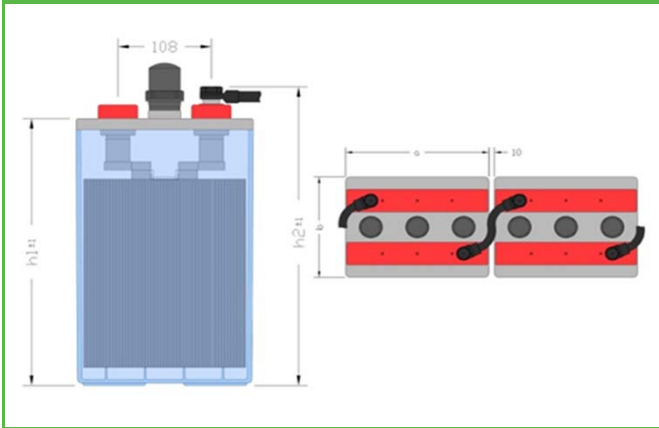
Constant Power Discharge (Watts) at 20°C (68°F)

| F.V/Time | 10min | 20min | 30min | 40min | 50min | 1h | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.90V/cell | 280.9 | 280.9 | 253.0 | 233.6 | 207.1 | 188.1 | 129.9 | 100.4 | 80.8 | 69.1 | 61.1 | 53.2 | 51.2 | 49.2 | 48.1 |
| 1.85V/cell | 325.3 | 325.3 | 319.6 | 285.0 | 261.7 | 241.3 | 162.4 | 124.9 | 103.0 | 86.8 | 76.5 | 68.9 | 63.2 | 57.9 | 56.2 |
| 1.80V/cell | 548.3 | 426.4 | 367.4 | 329.5 | 294.1 | 262.5 | 176.7 | 134.3 | 108.1 | 93.0 | 80.5 | 72.5 | 67.1 | 62.6 | 56.8 |
| 1.75V/cell | 599.8 | 481.8 | 405.3 | 355.3 | 315.1 | 286.8 | 190.0 | 139.8 | 114.0 | 97.3 | 83.9 | 74.8 | 69.4 | 63.1 | 57.2 |
| 1.70V/cell | 664.0 | 524.4 | 431.4 | 378.7 | 337.4 | 303.3 | 197.9 | 144.2 | 118.0 | 98.7 | 85.9 | 77.5 | 71.3 | 66.7 | 58.8 |
| 1.65V/cell | 694.7 | 546.6 | 480.8 | 413.8 | 358.8 | 313.9 | 201.8 | 148.3 | 121.1 | 105.0 | 87.0 | 79.7 | 71.1 | 67.1 | 58.9 |

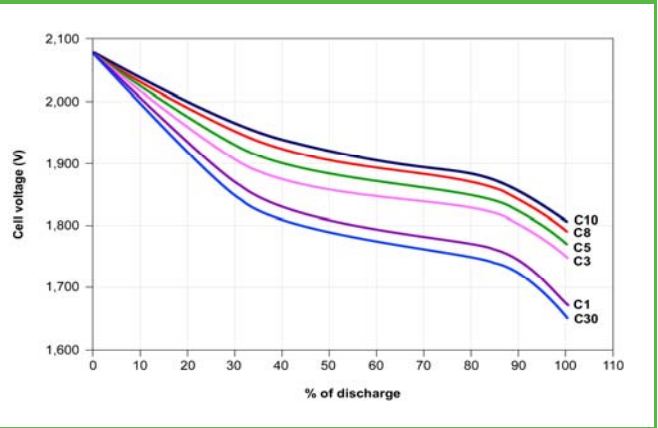


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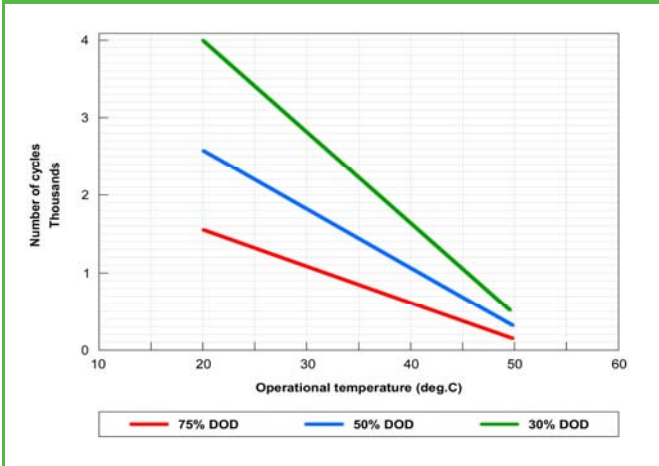
Dimension



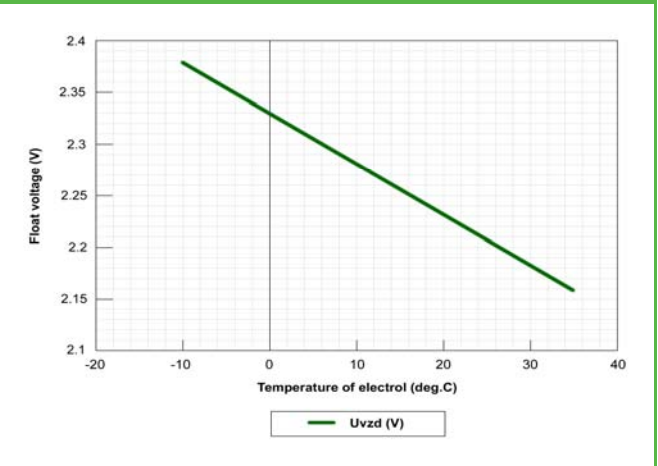
Voltage vs. % of discharge at Cx



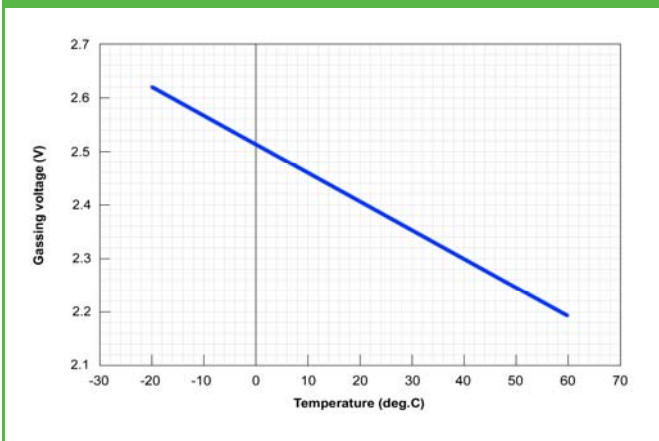
Lifetime in cycles vs. temperature at DOD



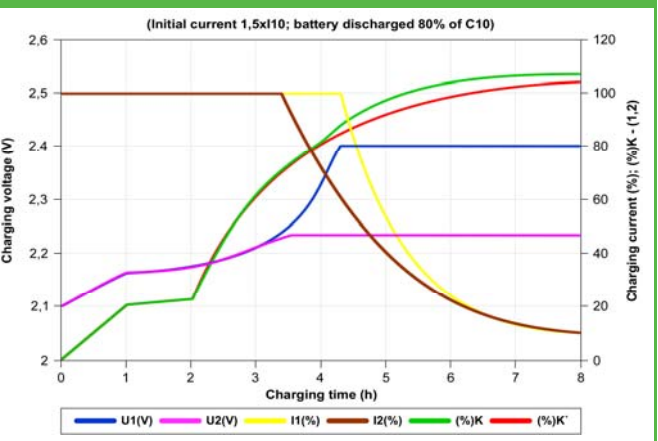
Float voltage as f (T)



Gassing voltage as f (T)



Charging of OPzS with IU charger



ETL SEMKO

