

6V 4 OPzS 200



| 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 272 mm |
| | Width 205 mm |
| | Height 332 mm |
| Weight | Dry: 34.1 kg Wet: 46.4 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 | 98.8 | 98.8 | 88.5 | 79.5 | 72.2 | 65.5 | 45.0 | 34.7 | 27.9 | 23.8 | 21.1 | 18.3 | 17.6 | 17.0 | 16.6 |
| 1.85V/cell | 119.5 | 119.5 | 115.9 | 102.8 | 94.0 | 86.6 | 57.5 | 44.0 | 36.1 | 30.3 | 26.5 | 23.8 | 21.8 | 19.7 | 19.0 |
| 1.80V/cell | 203.0 | 160.0 | 136.3 | 121.2 | 107.7 | 95.7 | 63.3 | 47.7 | 38.2 | 32.7 | 28.1 | 25.2 | 23.1 | 21.4 | 20.4 |
| 1.75V/cell | 224.6 | 183.8 | 153.3 | 132.9 | 117.1 | 105.7 | 68.1 | 49.8 | 40.2 | 34.1 | 29.3 | 25.9 | 23.8 | 21.4 | 20.4 |
| 1.70V/cell | 255.4 | 204.4 | 165.5 | 143.1 | 126.0 | 112.7 | 70.9 | 51.0 | 41.6 | 34.6 | 30.0 | 26.8 | 24.4 | 22.0 | 20.4 |
| 1.65V/cell | 275.9 | 214.6 | 183.9 | 156.7 | 134.9 | 117.6 | 72.2 | 52.4 | 42.3 | 35.1 | 30.1 | 27.0 | 24.5 | 22.2 | 20.5 |

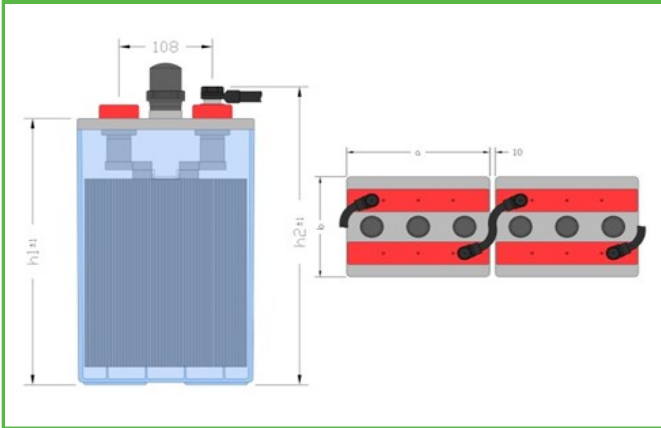
Constant Power Discharge (Watts) at 20°C (68°F)

| F.V/Time | 10min | 20min | 30min | 40min | 50min | 1h | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.90V/cell | 187.4 | 187.4 | 168.5 | 151.6 | 137.9 | 125.4 | 86.5 | 66.8 | 53.9 | 46.0 | 40.8 | 35.4 | 34.1 | 32.9 | 32.0 |
| 1.85V/cell | 216.9 | 216.9 | 213.1 | 189.9 | 174.4 | 161.3 | 108.2 | 83.3 | 68.7 | 57.9 | 50.9 | 45.8 | 42.2 | 38.5 | 37.4 |
| 1.80V/cell | 365.5 | 284.2 | 245.0 | 219.6 | 196.1 | 175.0 | 117.7 | 89.4 | 72.2 | 62.0 | 53.6 | 48.4 | 44.6 | 41.7 | 37.8 |
| 1.75V/cell | 399.8 | 321.1 | 270.2 | 236.9 | 210.0 | 191.2 | 126.0 | 93.3 | 75.9 | 64.9 | 55.9 | 49.8 | 46.2 | 42.0 | 38.0 |
| 1.70V/cell | 442.6 | 349.6 | 287.5 | 252.4 | 224.9 | 202.8 | 131.5 | 96.0 | 78.7 | 65.7 | 57.3 | 51.6 | 47.6 | 44.4 | 39.0 |
| 1.65V/cell | 463.1 | 364.4 | 320.6 | 275.8 | 239.1 | 210.4 | 134.0 | 98.7 | 80.7 | 70.0 | 58.0 | 53.2 | 47.4 | 44.8 | 39.2 |

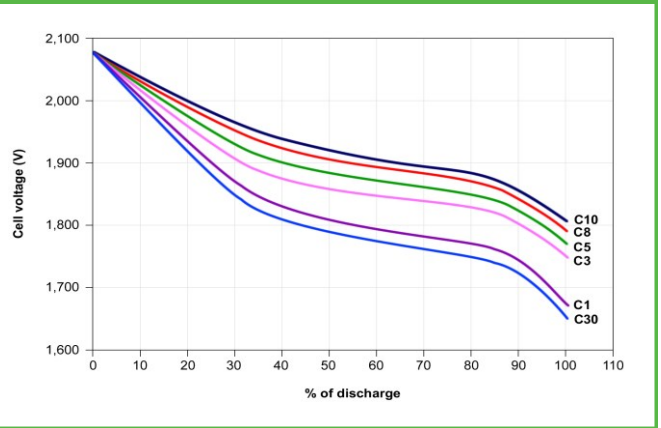


6V 4 OPzS 200

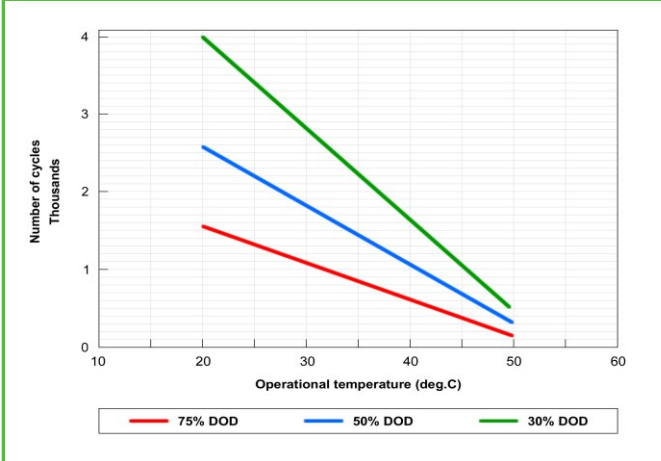
Dimension



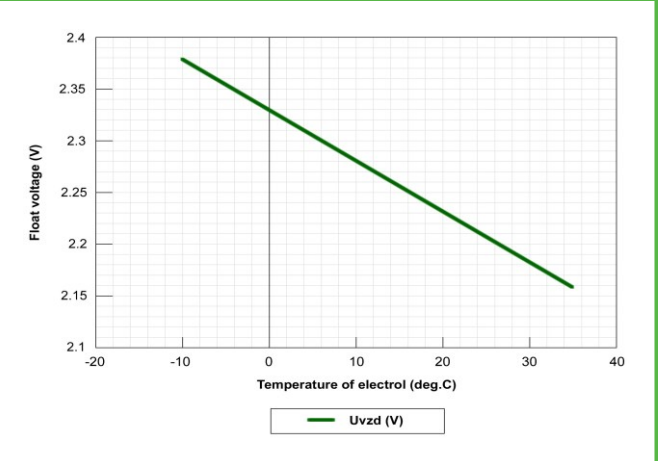
Voltage vs. % of discharge at Cx



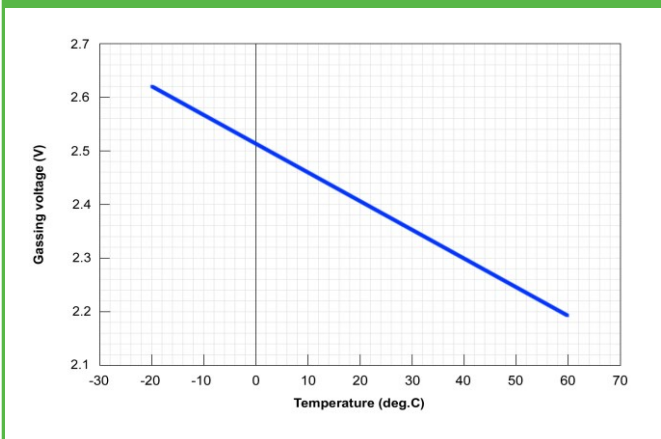
Lifetime in cycles vs. temperature at DOD



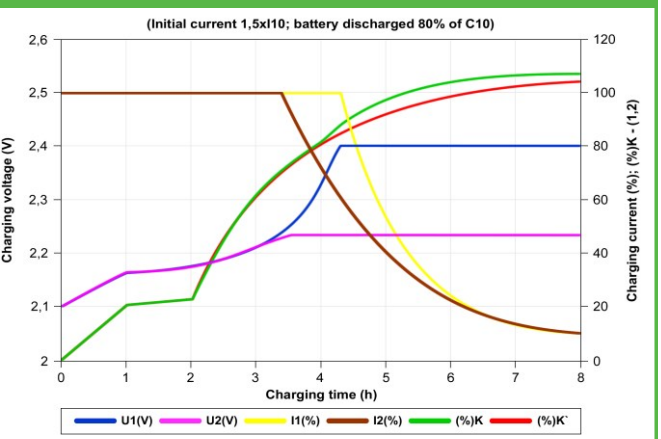
Float voltage as f (T)



Gassing voltage as f (T)



Charging of OPzS with IU charger



Polígono industrial La Dehesa
C/ Dehesa Vieja, nº2 Nave 16
28052 Madrid (Spain)
Tel. (+34) 918 021 649
Fax. (+34) 917 750 542
info@masterbattery.es

