Master U-power®

# UP-OPzV CELLS SERIES

## 24 OPzV 3000


| Specification | | |
|---|---|---|
| Float Voltage | Standby use 2.23 V/cell | |
| Boost Recharge | Maximum voltage of 2.35 - 2.40 V/cell with a maximum current of 0.25 C10 (A) | |
| Dimension | Length | 576 mm (22,68 inches) |
| | Width | 212 mm (8,35 inches) |
| | Height | 771 mm (30,35 inches) |
| Weight | 231,4 kg | |
| Self Discharge | Approx. 2% per month at 20°C | |
| Tubular Positive Plates | Special grid construction, pressure cast from antimony free alloy, with highly porous gauntlets that retain the active material | |
| Pasted Negative Plates | Service lives consistent with the positive plates | |
| Electrolyte | Gel structure | |
| Separators | Extremely high porosity and low internal resistance | |
| Containers and Lids | Made of plastic (ABS) material. Also available in ABS flame retardant material as an option (according to IEC 707 FV0) | |
| Installation | Cells are normally installed in an upright position on steel stands | |
| One Way Relief Valve | Opens at low pressure and is fitted with a flame arrestor device | |
| Terminals | Female treated terminal (M10) perfect contact and low resistance with flexible cable connectors | |
| Post Seals | Prevents electrolyte leakage and terminal corrosion | |
| Connectors | Flexible, fully insulated cable connectors screwed (with 20±1 Nm) to the terminal with an insulated screw having a probe hole on the top for electrical measurement | |

**Constant Current Discharge (Amperes) at 20ºC (68ºF)**

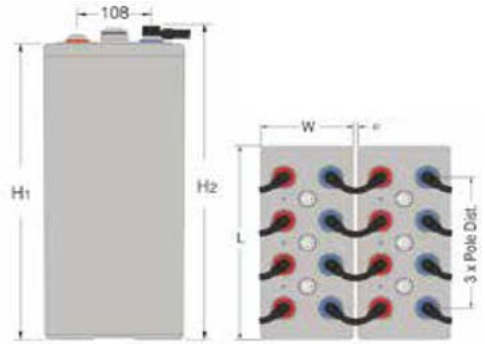
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.90VPC** | 825 | 810 | 759 | 591 | 489 | 420 | 369 | 330 | 278 | 234 | 134 |
| **1.85VPC** | 1185 | 1146 | 978 | 756 | 609 | 519 | 450 | 399 | 323 | 271 | 154 |
| **1.80VPC** | 1620 | 1494 | 1260 | 945 | 702 | 597 | 500 | 450 | 366 | 306 | 170 |
| **1.75VPC** | 2010 | 1746 | 1398 | 1000 | 744 | 620 | 515 | 462 | 371 | 310 | 171 |
| **1.70VPC** | 2318 | 1988 | 1438 | 1041 | 792 | 641 | 543 | 472 | 374 | 312 | 172 |
| **1.65VPC** | 2612 | 2208 | 1620 | 1066 | 803 | 647 | 548 | 476 | 376 | 313 | 172 |

**Constant Power Discharge (Watts) at 20ºC (68ºF)**

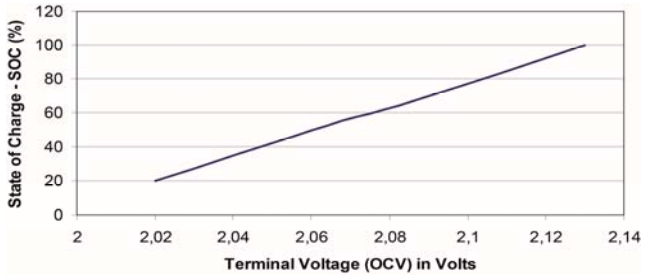
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.90VPC** | 1570 | 1545 | 1456 | 1141 | 949 | 817 | 717 | 644 | 542 | 461 | 265 |
| **1.85VPC** | 2210 | 2145 | 1831 | 1431 | 1161 | 996 | 867 | 770 | 626 | 527 | 302 |
| **1.80VPC** | 2953 | 2728 | 2320 | 1760 | 1318 | 1124 | 946 | 855 | 703 | 587 | 333 |
| **1.75VPC** | 3582 | 3150 | 2546 | 1845 | 1385 | 1161 | 970 | 871 | 708 | 590 | 334 |
| **1.70VPC** | 4024 | 3541 | 2595 | 1912 | 1461 | 1194 | 1019 | 889 | 707 | 592 | 327 |
| **1.65VPC** | 4482 | 3888 | 2890 | 1937 | 1465 | 1192 | 1018 | 887 | 703 | 588 | 324 |

# 24 OPzV 3000

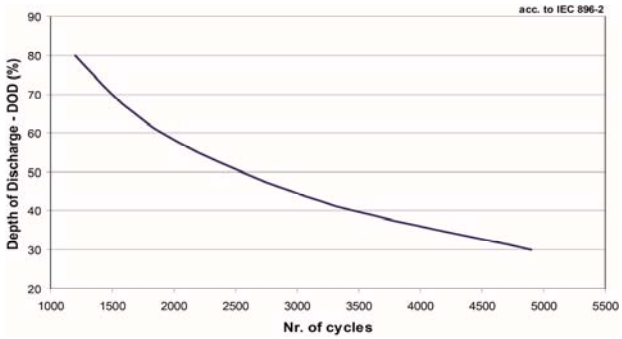
## Layout



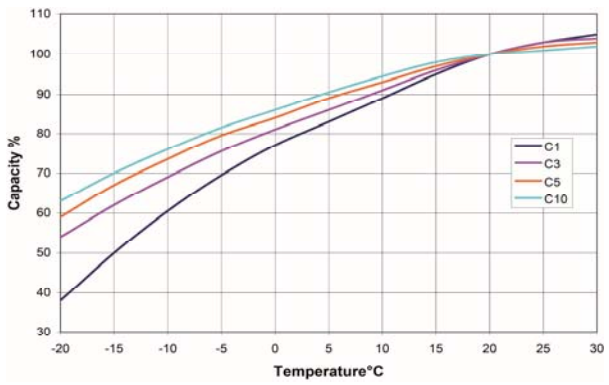

## Terminal Voltage vs. SOC



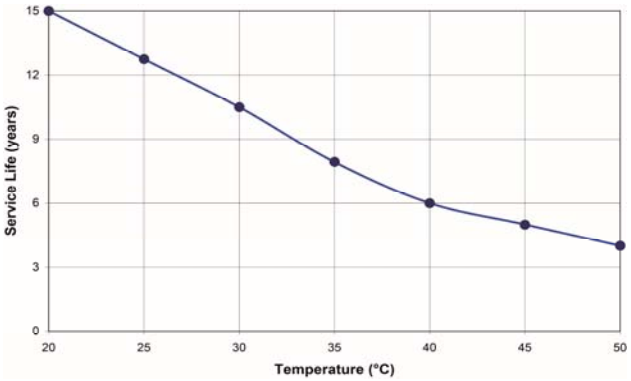

## No. of cycles vs. DOD



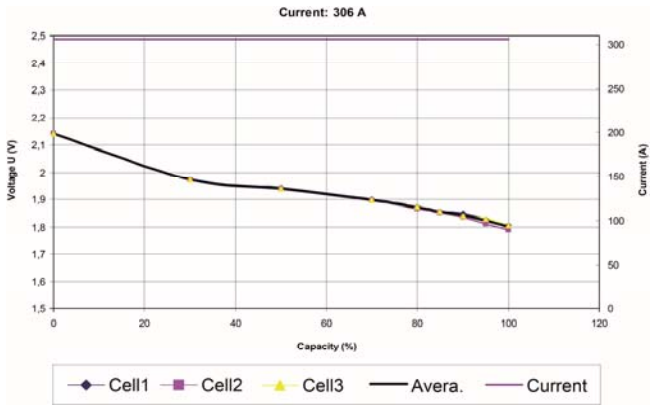

## Capacity = f(T)




## Service Life vs Temperature




## Capacity test C10




MH26866

EMC tested Germany

Intertek ETL SEMKO

VdS