TAB OPzS – Basic Technical Data



Design

positive electrode - tubular plate with a polyester gauntlet and solid grids in a corrosion- resistant PbSb1.6SnSe - alloy
negative electrode grid - plate in lead-antimony alloy with long - life expander active material separation - microporous separator
electrolyte - sulphuric acid with a density of 1,24+/-0,01 kg/l at 20°C,
container - high impact, transparent SAN (Styren-Acryl-Nitryl)
lid - ABS in dark grey color
plugs - transport labyrinth plugs for arresting aerosol; ceramic plugs plugs - according DIN 40 740
pole - bushing 100% gas- and electrolyte-tight, sliding-pole
kind of pole - bolt on M10 brass insertion or welded type
connectors - flexible insulated copper cables, with cross-section of 35, 50, 70, 95 or 120 mm²
kind of protection - IP 25 regarding DIN 40050, touch protected according VBG 4.

Charging

IU - characteristic Imax without limitation Float voltage - Ufloat = 2,23 V/cell +- 1%, between 10°C and 55°C $\Delta U/\Delta T = -0,004$ V/K below 10°C in the monthly average boost charge - Uboost = 2,35 to 2,40V/cell, time limited charging time - up to 88% 6h with 1,5*110 initial current, 2.23 V/cell, 50% C10 discharged

Discharge characteristics

reference temperature 20°C initial capacity 100% depth of discharge (DOD) normally up to 80% deep discharges more than 80% DOD or discharges beyond final discharge voltages (dependent on discharge current) have to be avoided

Maintenance

every 6 months check battery voltage, pilot block voltage, temperature every 12 months record battery and block voltages and temperatures

Operational data

Design life – 20+ years at 20°C water - refilling - interval more than 2 years at 20°C IEC 896-1 cycles 1500 self-discharge app. 2 % per month at 20°C operational temperature -20°C to 55°C recommended temperature 10°C to 30°C ventilation requirement 50% f1=0,5 due to low antimony alloy (acc. EN 50272-2) Dimensions according standard DIN 40 736 part 1 tests according IEC 896 – 1 safety standards VDE 0510 part 2 and EN 50272-2 transport - no dangerous goods during road transport