

TAB TOPzS

LOW MAINTENANCE
TAB TOPzS VENTED
STATIONARY BATTERIES.

The stationary batteries of the type TOPzS are manufactured according to the DIN 40736, EN 60896 and IEC 896-1 regulations. Individual cells (2V) are made from translucent PP containers.



DESIGN

- POSITIVE ELECTRODE
 - » Tubular positive plate with low antimony alloy (<2 %)
- NEGATIVE ELECTRODE
 - » Flat plate with long life expander
- SEPARATION
 - » Microporous separator
- ELECTROLYTE
 - » Sulphuric acid of 1,24 kg/l
- CONTAINER
 - » Transparent PP
- LID
 - » PP in green colour
- POLE SEALING
 - » 100 % gas-and electrolyte-tight, rubber seal
- POLE
 - » M10, brass insert
- CONNECTOR
 - » flexible insulated copper cable, with cross-section of 35, 50, or 70 mm²
- POLE SCREW
 - » M10, steel, insulated

INSTALLATION

CELLS MUST BE INSTALLED IN METAL TRAYS

CHARGING

- IU - CHARACTERISTIC
 - » I_{max} without limitation
- FLOAT VOLTAGE
 - » U = 2,23 V/cell ± 1 %
- BOOST CHARGE
 - » U = 2,35 to 2,40 V/cell

DISCHARGE CHARACTERISTICS

- 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

OPERATIONAL DATA

- OPERATIONAL LIFE
 - » Up to 15 years
- IEC 896-1 CYCLES
 - » 1200
- SELF-DISCHARGE
 - » Approx. 3 % per month at 20 °C
- OPERATIONAL TEMPERATURE
 - » -20 °C to 55 °C, recommended 10 °C to 30 °C
- TESTS ACCORDING
 - » IEC 896-1, EN 60896-1, EN 61427
- SAFETY STANDARDS, VENTILATION
 - » EN 50272-2

STATIONARY BATTERIES OF THE TOPzS TYPE ARE SPECIALLY DESIGNED FOR SOLAR SYSTEMS. DUE TO THEIR EXTREMELY LOW SELF-DISCHARGING AND TUBULAR POSITIVE PLATES THEY ARE SUITABLE FOR OFF-GRID SOLAR SYSTEMS.

CELL TYPE	Dimensions (mm) LxWxH	Weight (kg)	C10 (Ah) U _f =1,80V at 20°C	C100 (Ah) U _f =1,85V at 25°C
3 TOPzS 265	198x83x472	12,4/18,4	265	345
4 TOPzS 353	198x101x472	16/23,3	353	458
5 TOPzS 442	198x119x472	20,2/29	442	575
4 TOPzS 500	198x101x720	24,3/35,2	500	650
5 TOPzS 625	198x119x720	30,3/43,2	625	812
6 TOPzS 750	198x137x720	38,0/53,5	750	975
7 TOPzS 875	198x173x720	44,0/64,2	875	1137
8 TOPzS 1000	198x191x720	50,2/72,5	1000	1300



MAINTENANCE

- EVERY 6 MONTH
 - » Check battery voltage, pilot block voltage, temperature
- EVERY 12 MONTH
 - » Take down battery voltage, block voltage, temperature