Technical specification for TAB traction 2V cells type

2V 10PZB420



Technical data

Nominal voltage of cells:	2,0 V
Capacity C_5:	420 Ah
Discharge current:	C_5/5h = 84,0 A
Final discharge voltage/cell	1,70 V/cell
Nominal S.G. of electrolyte:	1,29 ± 0,01 kg/l
Rated temperature:	30°C
Specified torque for poll screws:	20-25 Nm
Ventilation requirement	EN IEC 62485-3

Dimensions and weight of the cell (EN IEC 60254-2)

Width (a)	173 mm
Length (b)	157,5 mm
Height h1	326 mm
Height h2	350 mm
Wet weight	27,6 kg ±5%
Dry weight	21,8 kg ±5%

Design:

Positive electrode	Tubular type with non-woven polyester gauntlet and solid grids
Negative electrode	Pasted grid plate with long life expander material in LA-lead alloy
Separation	Polyethylene (PE) micro porous separator
Electrolyte	Sulphuric acid with a density of 1,29 kg/l
Container	Polypropylene (PP) box and lid
Pole	Welded type or bolt-on with M10 brass insert

Execution of cells and batteries

Dry charge (DC) version	A battery/cell must be filled up with electrolyte and supplementary charged before use. The plates are already formed and with special process protected against oxidation.
Flooded - Electrolyte-charged version	A battery /cell can be installed immediately, it is already filled up with electrolyte and electrically charged.

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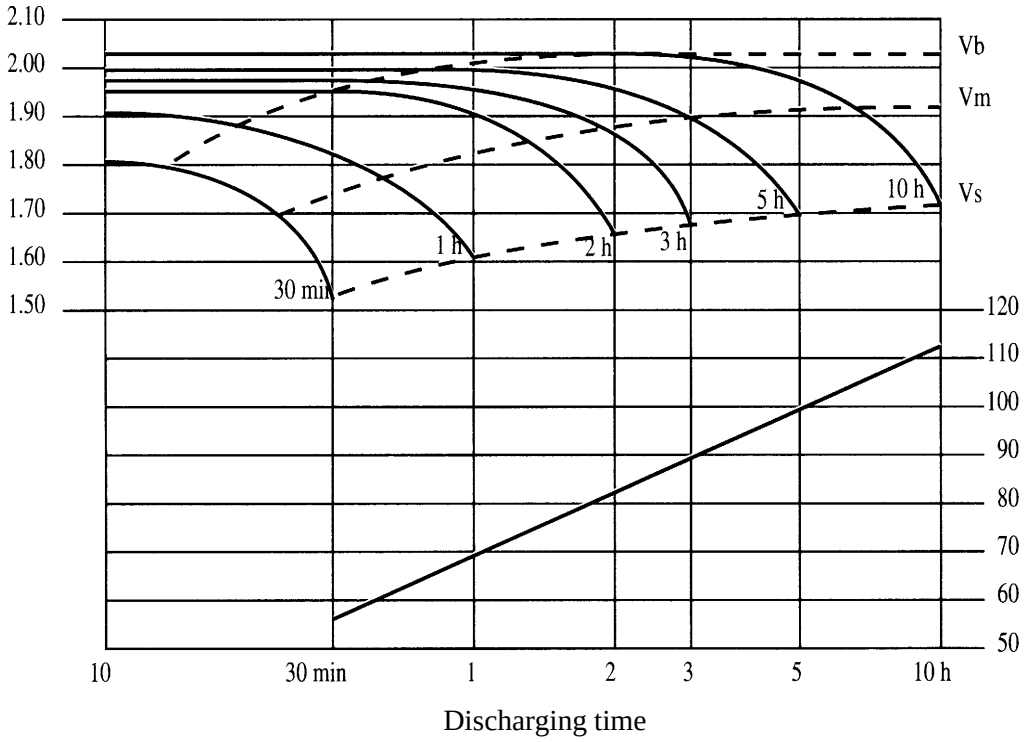
Recommended optional systems

Central water filling system - Aquamatic
Electrolyte mixing system - Airmatic
Capacitive battery electrolyte level sensor
Battery monitoring system - BMS

Discharge characteristics

EN IEC 60254-1 cycles	1500
Depth of discharge (DOD)	up to 80%*

* Deep discharges more than 80% DOD or discharges beyond final discharge voltages (dependent on discharge current) should be avoided.



Discharging time

Cells manufactured to existing ISO 9001, ISO 14001 and EN/IEC 60254 standards.