

TAB OGi BATTERIES

TAB OGi block batteries are robust vented lead-acid batteries designed for industrial applications in power supply with high safety requirements.



TAB OGi block batteries can be used for both long duration discharge (10 hours) and short duration discharge (few minutes). The main areas of application are DC power supply systems in power stations, UPS systems, industrial systems and emergency power supply systems. They can also be used for engine starting and PV power systems.



Uf V/cell	1,80	1,75	1,75	1,70	1,65	1,65	1,60	IEC 896-1		Dimensions			Weight	
Discharging Time (h)	10	5	3	1	1/2	1/6	1/12	Ri	Isc	L	W	H	Dry	Wet
Cell Type	Ah							mΩ	kA	mm			kg	
12V 1 OGi 25	29,0	25,5	22,5	16,8	14,3	9,2	6,7	16,79	0,72	272	205	392	22,0	33,0
12V 2 OGi 50	55,0	49,5	44,7	32,8	28,0	18,0	13,1	8,81	1,41	272	205	392	30,1	41,0
12V 3 OGi 75	80,0	74,5	67,5	49,6	42,2	27,3	19,8	5,94	2,11	272	205	392	38,2	49,0
12V 4 OGi 100	105,0	98,5	89,4	65,7	56,1	36,1	26,1	4,46	2,81	272	205	392	47,3	58,0
12V 5 OGi 125	135,0	123,0	111,3	81,6	69,0	44,3	31,7	3,57	3,52	380	205	392	62,3	78,0
12V 6 OGi 150	165,0	148,5	133,8	98,2	82,5	52,7	37,1	2,97	4,22	380	205	392	70,5	86,0
6V 7 OGi 175	187,2	167,3	151,3	110,7	91,2	56,9	39,6	1,27	4,93	272	205	392	37,7	49,0
6V 8 OGi 200	228,0	197,5	178,8	130,0	108,0	67,3	46,8	1,11	5,63	272	205	392	41,9	53,0
6V 9 OGi 225	254,0	221,5	200,7	145,8	121,5	75,5	52,6	0,99	6,36	380	205	392	51,6	68,0
6V 10 OGi 250	270,0	247,0	223,5	161,7	133,0	80,5	55,3	0,89	7,04	380	205	392	55,7	72,0
6V 11 OGi 275	304,0	271,5	245,1	177,6	146,0	88,5	60,7	0,81	7,78	380	205	392	58,8	75,0
6V 12 OGi 300	320,0	296,0	268,2	194,4	159,5	96,5	66,3	0,74	8,44	380	205	392	63,0	79,0
2V 3 OGi 75	80,0	74,5	67,5	49,6	42,2	27,3	19,8	0,99	2,11	103	206	420	9,1	13,8
2V 4 OGi 100	105,0	98,5	89,4	65,7	56,1	36,1	26,1	0,74	2,81	103	206	420	10,0	14,5
2V 5 OGi 125	135,0	123,0	111,3	81,6	69,0	44,3	31,7	0,60	3,52	103	206	420	10,9	15,2
2V 6 OGi 150	165,0	148,5	133,8	98,2	82,5	52,7	37,1	0,50	4,22	103	206	420	11,8	15,9
2V 7 OGi 175	187,2	167,3	151,3	110,7	91,2	56,9	39,6	0,42	4,93	103	206	420	12,6	16,5
2V 8 OGi 200	228,0	197,5	178,8	130,0	108,0	67,3	46,8	0,37	5,63	103	206	420	13,4	17,1
2V 9 OGi 225	254,0	221,5	200,7	145,8	121,5	75,5	52,6	0,33	6,36	103	206	420	14,2	17,7
2V 10 OGi 250	270,0	247,0	223,5	161,7	133,0	80,5	55,3	0,30	7,04	126	206	420	14,3	20,5
2V 11 OGi 275	304,0	271,5	245,1	177,6	146,0	88,5	60,7	0,27	7,78	145	206	420	16,1	23,3
2V 12 OGi 300	320,0	296,0	268,2	194,4	159,5	96,5	66,3	0,25	8,44	145	206	420	17,5	24,5
2V 24 OGi 600	684,0	592,5	536,4	390,0	324,0	201,9	140,4	0,13	16,42	205	272	392	41,9	53,0
2V 30 OGi 750	810,0	741,0	670,5	485,1	399,0	241,5	165,9	0,1	21,89	205	380	392	55,7	72,0
2V 36 OGi 900	960,0	888,0	804,6	583,2	478,5	289,5	198,9	0,08	24,63	205	380	392	63,0	79,0

Design

POSITIVE ELECTRODE

- » Robust-grid plate with circular bars in a corrosion-resistant PbSe alloy < 2% Sb

NEGATIVE ELECTRODE

- » Flat plate with long life expander and low antimony alloy

SEPARATION

- » Microporous separator

ELECTROLYTE

- » Sulphuric acid of 1,24 kg/l,

CONTAINER

- » High impact, transparent SAN

LID

- » SAN in dark grey colour

BLOCKS WITH BLIND CELLS

- » 4V, 6V, 8V, 10V

PLUGS

- » Ceramic plugs or optional ceramic funnel plugs according to DIN 40740

POLE SEALING

- » 100 % gas- and electrolyte-tight, sliding-pole

POLE

- » M10, brass insert

CONNECTOR

- » Flexible insulated copper cable, 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

- » I_{max} without limitation

FLOAT CHARGE

- » U = 2,23 V/cell ± 1 %, between 10°C and 55°C
- » dU/dT = -0,004 mV/°K below 10 °C in the monthly average

BOOST CHARGE

- » U = 2,35 to 2,40V/cell, time limited
- » CHARGING TIME UP TO 92 %
- » 6h with 1,5*I₁₀ initial current, 2,23 V/cell, 50 % C₁₀ discharged

Discharge characteristics

REFERENCE TEMPERATURE

- » 20 °C

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

Maintenance

EVERY 6 MONTH

- » Check battery voltage, pilot block voltage, temperature

EVERY 12 MONTH

- » Take down battery voltage, block voltage, temperature

Operational data

OPERATIONAL LIFE

- » Up to 15 years at 20 °C
- » Up to 7,5 years at 30 °C
- » Up to 4 years at 40 °C

WATER REFILLING INTERVAL

- » More than 3 years at 20 °C

IEC 896-1 CYCLES

- » 1000

SELF-DISCHARGE

- » Approx. 3 % per month at 20 °C

OPERATIONAL TEMPERATURE

- » -20 °C to 55 °C, recommended 10 °C to 30 °C

VENTILATION REQUIREMENT

- » f₁=0,5 (low-antimony alloy) according VDE 0510 part 2

MEASUREMENTS ACCORDING

- » DIN 40 737 part 3

TESTS ACCORDING

- » IEC 896-1,

APPLICABLE STANDARDS

- » VDE 0510 part 2

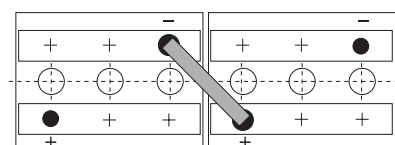
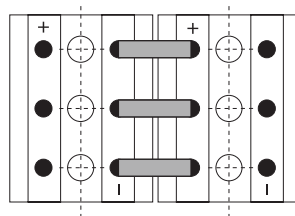
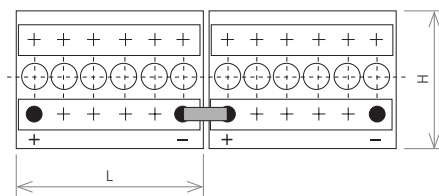
TRANSPORT

- » No dangerous goods during road transport

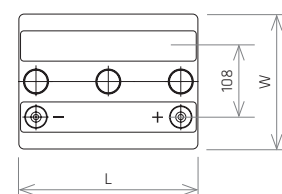
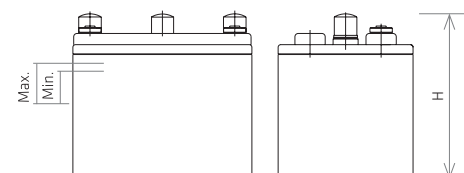
6V 7 OGi 175

Rated voltage
Robust OGi plates
Number of positive plate
Capacity at 10-hour discharging

Connections



Dimensions



« Electrolyte density:
1,24 ± 0,01kg/l at 20 °C.

All measures and weights are within standard production tolerances. Electrical values are approximative. Technical modifications are reserved without prior notice.