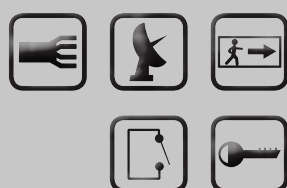


# TAB OGi BATTERIES

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	
<b>12V 1 OGi 25</b>	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
<b>12V 2 OGi 50</b>	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
<b>12V 3 OGi 75</b>	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
<b>12V 4 OGi 100</b>	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
<b>12V 5 OGi 125</b>	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
<b>12V 6 OGi 150</b>	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
<b>6V 7 OGi 175</b>	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
<b>6V 8 OGi 200</b>	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
<b>6V 9 OGi 225</b>	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
<b>6V 10 OGi 250</b>	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
<b>6V 11 OGi 275</b>	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
<b>6V 12 OGi 300</b>	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
<b>2V 3 OGi 75</b>	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
<b>2V 4 OGi 100</b>	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
<b>2V 5 OGi 125</b>	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
<b>2V 6 OGi 150</b>	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
<b>2V 7 OGi 175</b>	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
<b>2V 8 OGi 200</b>	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
<b>2V 9 OGi 225</b>	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
<b>2V 10 OGi 250</b>	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
<b>2V 11 OGi 275</b>	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
<b>2V 12 OGi 300</b>	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
<b>2V 24 OGi 600</b>	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
<b>2V 30 OGi 750</b>	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
<b>2V 36 OGi 900</b>	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 mm<sup>2</sup>

### KIND OF PROTECTION

- » IP 25 regarding DIN 40050, touch protected according VBG 4

## Charging

### IU - CHARACTERISTIC

- » I<sub>max</sub> 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\*110 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

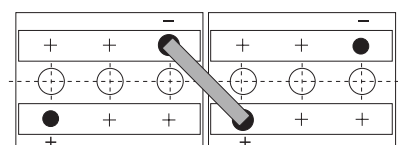
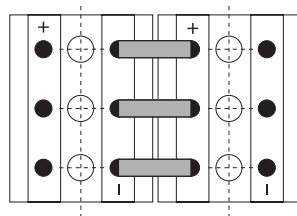
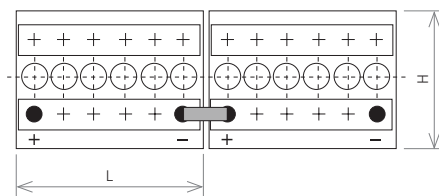
### TRANSPORT

- » No dangerous goods during road transport

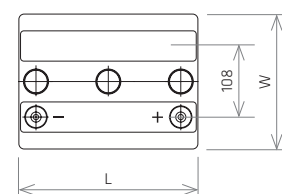
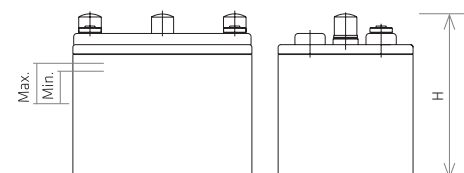
**6V 7 OGi 175**

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.