

# BAE SECURA OGi BLOCK-N6

## Technical Specification for Stationary VLA – Raised Post Block Batteries

### 1. Application

The OGi Series flooded flat-plate 6-12V multi-cell blocks are robust and optimized for high discharge performance and capable of long duration capacity. This battery has an excellent one-minute discharge rate. It also has an IEC 896-2 cycle rating of 1000 to 80% DOD, and is used for backup power in the applications listed below:

The new raised-post design permits individual cell and intercell connection resistance testing.

#### Application Uses:

- UPS and Data Centres
- Electrical utilities applications
- Emergency Lighting
- Diesel generating starting
- Railroad signal systems



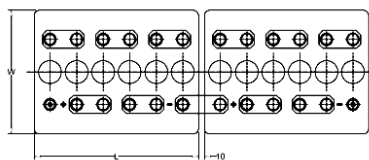
### 2. Types, capacities, dimensions, mass

Type	C10 20°C	C1min 25°C	C15min 25°C	C1 25°C	C3 25°C	C8 25°C	R <sub>i</sub> 1)	I <sub>Ks</sub> 2)	length	width	height (Max)	Mass 3)	Mass 4)	Lead Mass
U <sub>e</sub> V / cell	Ah	Amps	Amps	Amps	Amps	Amps	mΩ	kA	inch	inch	inch	lbs	lbs	lbs
12V 1 OGi 25-N6	31.3	106.9	49.7	21.6	10.5	5.4	26.40	0.47	10.71	8.07	15.16	50.9	77.6	43.0
12V 2 OGi 50-N6	60.2	176.4	85.4	36.4	16.5	7.7	13.20	0.93	10.71	8.07	15.16	67.5	93.0	56.4
12V 3 OGi 75-N6	90.3	244.7	121.8	50.6	22.1	10.3	8.80	1.40	10.71	8.07	15.16	84.0	108.0	70.9
12V 4 OGi 100-N6	104	314.0	157.5	65.2	28.0	12.8	6.60	1.86	10.71	8.07	15.16	99.2	122.4	86.7
12V 5 OGi 125-N6	138	394.8	203.7	84.0	35.6	16.3	5.28	2.33	14.96	8.07	15.16	118.6	154.8	100.1
12V 6 OGi 150-N6	167	465.2	241.5	99.0	41.6	18.8	4.40	2.80	14.96	8.07	15.16	136.7	171.5	112.2
6V 6 OGi 150-N6	167	465.2	241.5	99.0	41.6	18.8	2.13	2.80	10.71	8.07	15.16	71.0	98.5	59.9
6V 7 OGi 175-N6	210	483.0	254.1	111.3	49.6	23.0	1.89	3.25	10.71	8.07	15.16	80.2	107.1	67.7
6V 8 OGi 200-N6	240	541.8	286.7	126.0	55.3	25.4	1.65	3.73	10.71	8.07	15.16	88.4	114.9	78.5
6V 9 OGi 225-N6	270	630.0	339.2	148.1	65.3	30.3	1.47	4.18	14.96	8.07	15.16	99.6	140.2	84.1
6V 10 OGi 250-N6	300	686.7	372.8	162.8	71.0	32.8	1.32	4.66	14.96	8.07	15.16	108.2	147.9	88.2
6V 11 OGi 275-N6	330	744.5	405.3	176.4	76.6	35.1	1.20	5.13	14.96	8.07	15.16	117.3	156.5	99.2
6V 12 OGi 300-N6	360	802.2	438.9	191.1	82.3	37.6	1.10	5.59	14.96	8.07	15.16	125.4	164.0	107.3

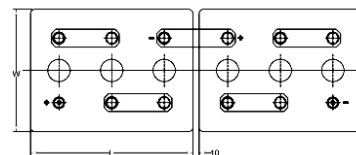
1) 2) internal resistance and short-circuit current according to IEC 896-11

3) dry-charged

4) filled and charged



12V 1 OGi 25-N6 to 12V 6 OGi 150-N6



6V 6 OGi 150-N6 to 6V 12 OGi 300-N6

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### 3. Design

Positive electrode	round-grid flat plate with low antimony alloy (1,6%), circular bars
Negative electrode	high lead weight solid grids in a corrosion-resistant PbSb1.6SnSe - alloy
Separation	round-grid flat plate in low antimony alloy with long-life expander material
Electrolyte	microporous separator
Container	sulphuric acid with a density of 1.24 kg/l
Lid	high impact, transparent SAN (Styrol-Acrylic-Nitrile), UL-94 rating: HB
Blocks with blind cells	high impact SAN in dark grey color, UL-94 rating: HB
Flame arrestors	4V, 8V and 10V
arrestors	includes standard ceramic arrestors with optional ceramic flip-top funnel
Pole bushing	acc. DIN 40 740 available
Kind of pole	100% gas- and electrolyte-tight, sliding, injection moulded "Panzerpol"
Intercell connector	M10 copper insertion
Inter-tier connectors	lead plated solid copper connectors with cross-sections of 90, 150 or 300 mm <sup>2</sup>
Connector screw	depending upon application
Kind of protection	flexible insulated copper cables
	M10 stainless steel with insulated cap
	IP 25 regarding DIN 40050, touch protected according VBG 4

### 4. Charging

IU - characteristic	$I_{max}$ without limitation $U = 2.23$ V/cell +/- 1%, between 10°C and 30°C (50 °F and 86 °F) $\Delta U/\Delta T = +/- 0.003$ V/K below 10°C in the monthly average
Float current	15mA/100Ah, increasing to 45mA/100Ah at the end of life
Equalize charge	$U = 2.33$ to 2.40V/cell, time limited
Charging time up to 90%	6h with $1.5 \cdot I_{10}$ initial current, 2.23 V/cell, 80% C3 discharged

### 5. Discharge characteristics

Reference temperature	25°C (77 °F)
Initial capacity	100% at time of delivery
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

### 6. Maintenance

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

### 7. Operational data

Operational life	20 years in stand-by operation, float at 20 to 25 °C (68 °F to 77 °F)
Water - refilling - interval	more than 3 years at 25°C (77 °F)
IEC 60 896-1 cycles	> 1000
Self-discharge	app. 3% per month at 20°C (68 °C)
Operational temperature	-20°C to 55°C(-4 °F to 131 °F); recommended 10°C to 30°C(50 °F to 86 °F)
Standard	DIN 40 736 part 1
Tests according	IEC 60 896 - 11
Safety standard, ventilation	DIN EN 50 272-2
Transport	Batteries are not subject to ADR (road transport), if the conditions of the special rule (chapter 3.3) are observed.

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