# 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 raised-post "N6" design permits individual cell and intercell connection resistance testing.

#### **Application Uses:**

UPS and Data Centers
Electrical Utilities Applications
Emergency Lighting
Diesel Generator Starting
Railroad Signal Systems

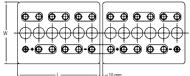


#### 2. Types, capacities, dimensions, weights

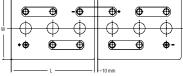
Туре	1 min	30 min	C <sub>1</sub>	C <sub>4</sub>	C <sub>8</sub>	Ri	lk	Length	Width	Height	Weight	Weight	Lead
	25°C	25°C	25°C	25°C	25°C	1)	2)	(L)	(W)	(H)	dry	filled	Mass
	Amps	Amps	Ah	Ah	Ah	mΩ	kA	inch	inch	inch	lbs	lbs	lbs
U <sub>e</sub> V / cell	1.75	1.75	1.75	1.75	1.75								
12V 1 OGi 25-N6	107	29.9	22	34	43	26.40	0.47	10.71	8.07	15.16	48.7	77.2	37.8
12V 2 OGi 50-N6	176	54.9	36	53	62	13.20	0.93	10.71	8.07	15.16	63.4	90.4	54.3
12V 3 OGi 75-N6	245	78.1	51	71	82	8.80	1.40	10.71	8.07	15.16	80.0	104.7	70.9
12V 4 OGi 100-N6	314	102	65	89	102	6.60	1.86	10.71	8.07	15.16	95.5	119.5	87.6
12V 5 OGi 125-N6	395	133	84	113	130	5.28	2.33	14.96	8.07	15.16	117.0	154.3	105.2
12V 6 OGi 150-N6	465	159	99	132	150	4.40	2.80	14.96	8.07	15.16	130.1	164.7	122.9
6V 4 OGi 100-N6	395	102	65	89	102	3.30	1.86	10.71	8.07	15.16	54.1	81.6	43.8
6V 6 OGi 150-N6	465	159	99	132	150	2.13	2.80	10.71	8.07	15.16	74.3	101.4	61.5
6V 7 OGi 175-N6	483	166	111	158	184	1.89	3.25	10.71	8.07	15.16	80.3	105.8	70.2
6V 8 OGi 200-N6	542	188	126	176	203	1.65	3.73	10.71	8.07	15.16	87.3	112.4	78.9
6V 9 OGi 225-N6	630	224	148	208	242	1.47	4.18	14.96	8.07	15.16	101.2	139.6	87.7
6V 10 OGi 250-N6	687	246	163	226	262	1.32	4.66	14.96	8.07	15.16	110.7	148.4	96.4
6V 11 OGi 275-N6	744	269	176	244	281	1.20	5.13	14.96	8.07	15.16	120.4	156.5	105.1
6V 12 OGi 300-N6	802	292	191	261	301	1.10	5.59	14.96	8.07	15.16	124.0	159.8	113.9

<sup>1)</sup> Internal resistance from IEC 60896-11; 2) Short circuit current from IEC 60896-11; All data is subject to change. Height (H) is the maximum distance between container bottom and top of the bolts in assembled condition.

#### 3. Terminal positions







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

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



### Technical Specification for BAE SECURA OGI BLOCK-N6

4. Design

Positive electrode Round-grid flat plate with low antimony alloy, circular bars, high lead weight

solid grids in a corrosion-resistant PbSbSnSe - alloy

Negative electrode Round-grid flat plate in low antimony alloy with long-life expander material

Separation Microporous separator

Electrolyte Sulphuric acid with a density of 1.24 kg/l

Container High impact, transparent SAN (Styrol-Acrylic-Nitrile), UL-94 rating: HB

Lid High impact SAN in dark grey color, UL-94 rating: HB

4V, 8V and 10V Blocks with blind cells

Flame arrestors Includes standard ceramic arrestors with optional ceramic flip-top funnel

arrestors acc. DIN 40740 available

Pole bushing 100% gas and electrolyte tight, sliding, injection moulded "Panzerpol"

Kind of pole M10 brass insertion

Intercell connector Lead plated solid copper connectors with cross-sections of 90, 150 or

300 mm<sup>2</sup> depending upon application

Flexible insulated copper cables Inter-tier connectors

Connector screw M10 stainless steel

Kind of protection IP 25 regarding DIN 40050, touch protected according VBG 4 with provided

clear covers

5. Charging

Float current

IU - characteristic I<sub>max</sub> without limitation

U = 2.23 V/cell +/- 1%, between 10°C and 30°C (50 °F and 86 °F)

 $\Delta U/\Delta T = +/-0.003 \text{ V/K below } 10^{\circ}\text{C}$  in the monthly average 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\*I<sub>10</sub> initial current, 2.23 V/cell, 80% C3 discharged

6. Discharge characteristics

Reference temperature 25°C (77°F)

95% or better at time of delivery Initial capacity

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

7. Maintenance

Every 6 months Check battery voltage, pilot block voltage and temperature Every 12 months

Record battery voltage, block voltages and temperatures

8. Operational data

Operational life 20 years in stand-by operation, float at 20°C to 25°C (68°F to 77°F)

Water - refilling - interval Up to 3 years, float at 20°C to 25°C (68°F to 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 40736 part 1 IEC 60896-11 Tests according

Safety standard, ventilation DIN EN 50272-2

Transport Subject to DOT Regulations – See SDS for details

