BAE SECURA OGIV BLOCK

Technical Specification for Stationary VRLA – Block Batteries

1. Application

BAE OGiV - Batteries belongs to the best EUROBAT classification for maintenance free lead-acid batteries. These are classified as >12 years, long life, the highest classification according to EUROBAT.

Where operational safety has top priority and short autonomy times of 15min to several hours are required, the OGiV is the right choice.

Application Uses:

UPS and Data centres
Telecommunications
Microwave radio systems
Emergency lighting
Electrical utilities applications
Diesel generating starting



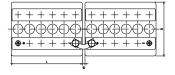
2. Types, capacities, dimensions, mass

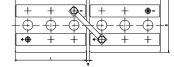
Туре	C10 20°C	C _{1min} 25°C	C _{15min} 25°C	C1 25°C	C3 25°C	C8 25°C	R _i	I _{Ks}	length	width	height (Max)	Mass
		25 C	25 C		25 C	25 C	1)	2)			(IVIAX)	
	Ah	Amps	Amps	Amps	Amps	Amps						
U _e V / cell	1.80	1.75	1.75	1.75	1.75	1.75	mΩ	kA	inch	inch	inch	lbs
12V 1 OGiV 25	28	87	47	19	7.6	3.2	19.20	0.65	10.71	8.07	15.16	77.35
12V 2 OGiV 50	51	174	95	37	15	6.3	9.60	1.29	10.71	8.07	15.16	97.24
12V 3 OGiV 75	77	261	142	56	23	9.4	6.40	1.94	10.71	8.07	15.16	117.13
12V 4 OGiV 100	101	349	190	75	31	12.5	4.80	2.59	10.71	8.07	15.16	137.02
12V 5 OGiV 125	130	421	234	93	37	15.7	3.84	3.23	14.96	8.07	15.16	185.64
12V 6 OGiV 150	157	495	280	111	45	18.8	3.20	3.88	14.96	8.07	15.16	205.53
6V 7 OGiV 175	178	596	323	128	51	21.9	1.37	4.53	10.71	8.07	15.16	117.13
6V 8 OGiV 200	205	641	369	146	59	25.0	1.20	5.18	10.71	8.07	15.16	125.97
6V 9 OGiV 225	229	678	397	164	67	28.2	1.07	5.80	14.96	8.07	15.16	161.33
6V 10 OGiV 250	255	715	421	183	75	31.3	0.96	6.47	14.96	8.07	15.16	172.38
6V 11 OGiV 275	281	752	446	202	83	34.4	0.87	7.14	14.96	8.07	15.16	179.01
6V 12 OGiV 300	308	789	472	220	92	37.5	0.80	7.76	14.96	8.07	15.16	187.85
2V 24 OGiV 600	615	1,920	1,180	438	177	75.0	0.13	15.53	14.96	8.07	15.16	125.97
2V 30 OGiV 750	765	2,145	1,260	549	225	93.9	0.11	19.41	14.96	8.07	15.16	179.01
2V 36 OGiV 900	924	2,367	1,416	660	276	112.5	0.09	23.29	14.96	8.07	15.16	187.85

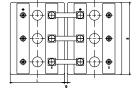
^{1) 2)} internal resistance and short-circuit current according to IEC 896-11

3) dry-charged

4) filled and charge







12V 1 OGiV 25 to 12V 6 OGiV 150

6V 7 OGiV 175 to 6V 12 OGiV 300

2V 24 OGiV 600 to 2V 36 OGiV 900



Technical Specification for BAE SECURA OGIV BLOCK

3. Design

Positive electrode round-grid plate with circular bars in a corrosion-resistant PbCaSn - alloy

Negative electrode grid - plate in a PbCaSn alloy with long - life expander material

Separation microporous separator

Electrolyte sulphuric acid with a density of 1.24 kg/l, fixed as a GEL by fumed silica Container and lid high impact SAN (Styrol-Acrylic-Nitrile), grey coloured, UL-94 rating: HB

(Alternatively container and lid in ABS(Acrylonitrile-Butadiene-Styrene),

UL-94 rating: V0)

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

Valve valve with flame arrestor, opening pressure approx. 120 mbar,

closing pressure approx. 50 mbar

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

Kind of pole M10 brass insertion

Intercell connectors insulated PVC coated solid copper connectors with cross-sections of 90, 150 or

300 mm² depending upon application

Inter-tier connectors flexible insulated copper cables M10 stainless steel with insulated cap Connector screw

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

Horizontal operation Please use BAE special type OGiV "horizontal". The construction and production

of this type is adapted to the horizontal operation.

4. Charging

IU - characteristic I_{max} without limitation

U = 2,25V/cell +- 1%, between 10°C and 45°C (50°F to 113°F)

 $\Delta U/\Delta T = -0,003 \text{ V/K}$ below 10°C in the monthly average

float current 20 - 30 mA/100Ah

U = 2,33 to 2,40V/cell, time limited boost charge

6h with 1,5-I₁₀ initial current, 2.25 V/cell, 50% C10 discharged charging time up to 92%

5. Discharge characteristics

reference temperature 25°C (77°F)

according to IEC 60896-21: 95% or greater 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

6. Maintenance

every 6 months check and record battery voltage, pilot cell voltage and temperature

every 12 months check and record battery, cell voltages and temperatures

7. Operational data

EUROBAT

Classification according to > 12 years, Long life

Operational life 15 to 20 years in stand-by operation, float at 20°C to 25°C (68°F to 77°)

Maintenance-free no topping off water during life

IEC 60 896-2 cycles

Self-discharge approx. 2% per month at 25°C (68°F)

Operational temperature -20°C to 45°C (-4°F to 113°F), recommended 10°C to 30°C (50°F to 86°F), short-

periods 45°C to 55°C (113°F to 131°F)

Standard DIN 40 742 part 1 Tests according to IEC 60 896 - 21, -22

Safety standard, ventilation DIN EN 50 272-2, Ventilation requirements are reduced to 20% compared to those for

vented batteries of the same capacity

Batteries are not subject to ADR (road transport), if the conditions of the special Transport

rule (chapter 3.3) are observed.

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