



Premium Lead Batteries

Stationary Applications



ENERGY UTILITIES



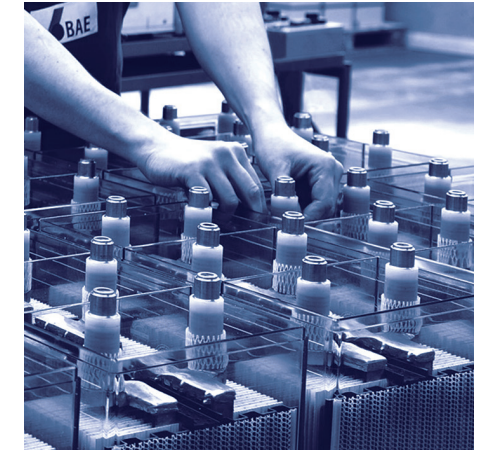
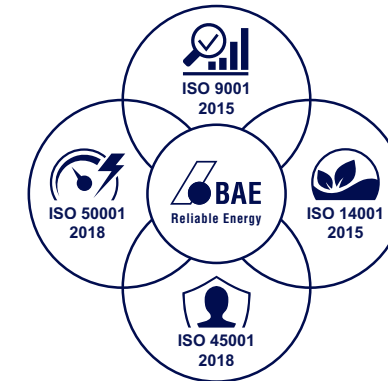
UNINTERRUPTED POWER SUPPLY



TELECOMMUNICATIONS



TRAFFIC INFRASTRUCTURE



SHORT PROFILE

Since 1899 BAE stands synonym for highest quality and reliability in the market for industrial lead batteries. Nowadays we are an independent medium-sized company with a well-established position in the international battery market.

The core business of BAE is the production of stationary batteries, especially wherever electricity needs to flow uninterrupted like in the emergency power supply for data centres, electrical power supply facilities and telecommunication infrastructure.

Since many years BAE also operates in the market of renewable energy and provides solutions for a reliable and environmental-friendly electrical power supply. BAE excels in its customer orientation and quality is our hallmark. A highly flexible and process-orientated structure enables us to provide our customers with tailor-made solutions.

Top quality, reliability and sustainability are the core elements of the long-lasting success of our products.

QUALITY

As a well-recognized manufacturer for premium industrial batteries BAE is aware of its responsibilities to customers, its employees, society and environment. The commitment to the highest quality standards, which are embedded in our company philosophy and we have been certified according to the quality management standard ISO 9001 in 1995.

BAE quality management pervades to all areas and the highest quality standards already apply to the selection and procurement of the components which are used in our products. As a consequence BAE only sources components from suppliers which are located within the EU-27.

During the different production steps the quality of the raw materials, the intermediate products and the actual production procedure will be checked consequently. Critical issues will be checked 100% to ensure that only products of highest quality level will be supplied to our customers.

ENVIRONMENT

As a producer of high quality lead batteries BAE is aware of its responsibilities towards society and environment. As an early adapter to the fulfilment of the highest environmental standards BAE has already been certified to the environmental management standard ISO 14001 in 2004.

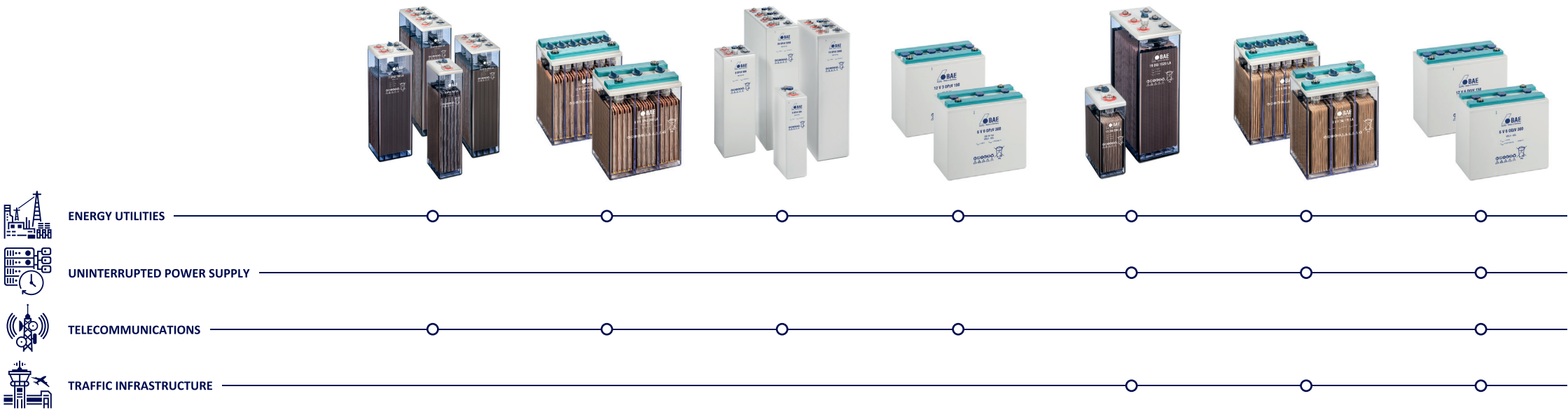
As a further step in our sustainable corporate strategy, we successfully implemented the certification of a management system for occupational health and safety in 2012 and the energy management system according to the ISO 50001 Standard in 2013. We successfully added the ISO 45001 certification in 2020.

Lead batteries consist of lead, plastic parts and acid of which all components are almost to 100% recyclable. This whole EU-certified and registered recycling process makes the lead battery one of the most environmental friendly energy sources.

Our aim is simple:

“the chemistry must be right”

Premium Lead Batteries



Typ	OPzS Cells	OPzS Block	OPzV Cells	OPzV Block	OGi Cells	OGi Block	OGiV Block
System	Vented (VLA)	Vented (VLA)	Valve regulated (VRLA)	Valve regulated (VRLA)	Vented (VLA)	Vented (VLA)	Valve regulated (VRLA)
Nominal (10 h)	100 – 3.250 Ah	50 – 300 Ah	100 – 3.250 Ah	50 – 900 Ah	200 – 2.400 Ah	25 – 900 Ah	25 – 900 Ah
Voltage	2 V	6 V, 12 V	2 V	2 V, 6 V, 12 V	2 V	2 V, 6 V, 12 V	2 V, 6 V, 12 V
Positive elektrode	Tubular PbSbSnSe	Tubular PbSbSnSe	Tubular PbCaSn	Tubular PbCaSn	Round Grid PbSbSnSe	Round Grid PbSbSnSe	Round Grid PbCaSn
Container (UL-94 rating)	SAN/PC (HB/V-O)	SAN (HB)	ABS (HB/V-O)	SAN/ABS (HB/V-O)	SAN (HB)	SAN (HB)	SAN/ABS (HB/V-O)
Electrolyte	Liquid	Liquid	GEL	GEL	Liquid	Liquid	GEL
Typical discharge time	30 min – 10 h	30 min – 10 h	30 min – 10 h	30 min – 10 h	5 min – 10 h	5 min – 10 h	5 min – 10 h
Water-refilling-interval ¹⁾	> 3 years	> 3 years	N/A	N/A	> 3 years	> 3 years	N/A
Horizontal operational (optional)	N/A	N/A	YES	YES	N/A	N/A	YES
Pole bushing	100 % tight	100 % tight	100 % tight	100 % tight	100 % tight	100 % tight	100 % tight
Service life (years)	20+	18	20	18	20	16	15
Cykles IEC 60896-11/-21/-22	> 1.500	> 1.200	> 1.500	> 1.500	> 1.200	> 1.000	> 800
Float voltage (V/cell)	2.23	2.23	2.25	2.25	2.23	2.23	2.25

Reference temperature: 20°C

¹⁾ Reference values. The real water-refilling-interval for vented batteries depends on many factors, e.g. ambient temperature and specific battery operation.

QUALITY – MADE IN GERMANY

BAE SECURA batteries for stationary applications are the perfect and safest choice wherever reliable power supply is required. Independent from your power demand – few seconds or several hours – BAE SECURA batteries have the unique solution for your application.

Main field of applications are telecommunication installations (server farms, GSMs, fix lines), infra-structure systems (airports signalling, railway control centres), energy utilities (power plants, power distribution, sub stations) and uninterrupted power supply (UPS) systems (data centres, hospitals).

BAE offers stationary batteries as extreme low maintenance VLA battery design with liquid electrolyte and maintenance free VRLA battery design with fixed (GEL) electrolyte. Reliability, a superior life-time and excellent deep-discharge capabilities are the hallmarks of our batteries.

Powerful tailor-made solutions, e.g. in terms of flame retardant properties (UL-94 rating), transparent lids or block batteries in variable 4 V, 8 V or 10 V designs are showing the high innovative capacity of BAE based on the outstanding characteristics of the single battery.

BAE SECURA stationary batteries reflect outstanding quality and usability by:

- Approved service life of up to 20 years as perfect protection of your investments
- Perfect reliability concurrent with lowest cleaning requirements and minimal maintenance effort due to absolute tight pole bushing in BAE “Panzerpol” design
- Excellent charge acceptance with high efficiency improved by black carbon additives
- Unique external inter-cell connector design for all stationary block batteries secures best energy transfer and provides single cell monitoring
- Microporous low resistance leaf separator with attached glass mat for additional active mass protection (for BAE SECURA OGi and OGiV)
- Safe and long term proven technology
- Cost neutral and well-established recycling process