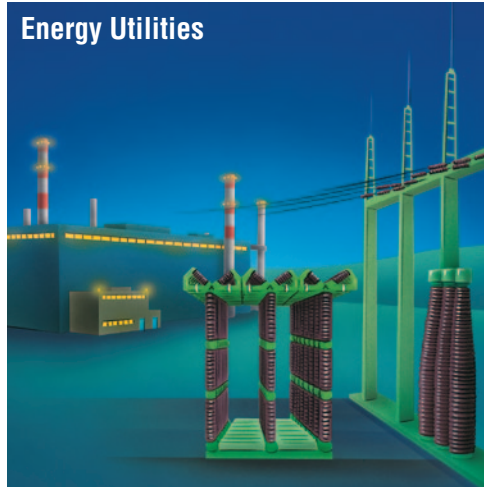


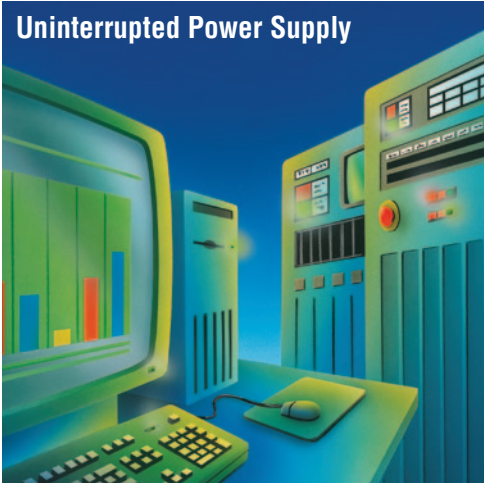
Telecommunications



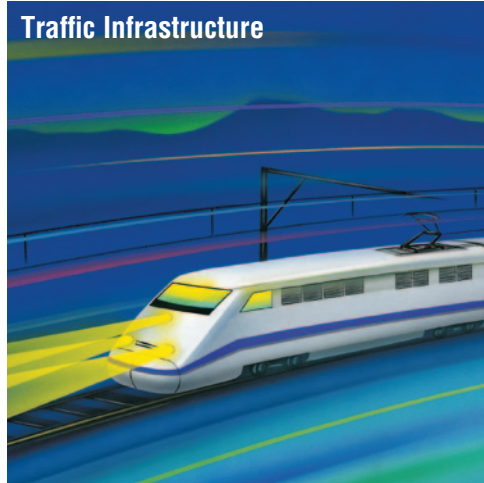
Energy Utilities



Uninterrupted Power Supply















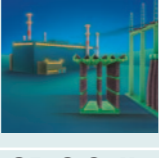

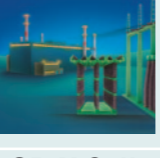













Traffic Infrastructure



Batteries for Stationary Applications

BAE *SECURA* Batteries for Stationary Applications

Applications							
							
							
Type	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 capacity (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 electrode	Tubular PbSbSnSe	Tubular PbSbSnSe	Tubular PbCaSn	Tubular PbCaSn	Round Grid PbSbSnSe	Round Grid PbSbSnSe	Round Grid PbCaSn
Container (UL-94 rating)	SAN (HB)	SAN (HB)	ABS (HB/V-0)	SAN/ABS (HB/V-0)	SAN (HB)	SAN (HB)	SAN/ABS (HB/V-0)
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
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
Cycles 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⁾ Under nominal conditions, float service

What makes BAE batteries so reliable ...












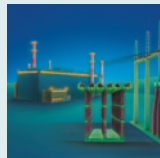
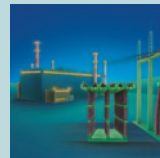





BAE stationary batteries are used wherever perfect reliable power supply has to be ensured, both for a few seconds and for hours. Typical applications are Uninterrupted Power Supply (UPS) – systems as to be found in data centers, telecommunication installations or hospitals and airports. Further applications are backup systems used in power plants or industry and infrastructure systems.

BAE stationary batteries are available in low maintenance VLA and maintenance free VRLA-GEL design. For high current applications, batteries with positive grid plates (OGi or OGiV) are used. In applications which require long term discharges and / or high cycle life, batteries with positive tubular plates (OPzS or OPzV) are used. Moreover BAE is able to supply tailor-made solutions.

BAE stationary batteries reflect outstanding quality by:

- approved service life of more than 20 years for cells
- fully insulated battery design to ensure touch protection
- excellent deep discharge capability
- slidable patented BAE "Panzerpole" for perfect reliability
- external intercell connector design for all block batteries
- easy access for measurements via service ring and pole screw

BAE SECURA S-LINE

Applications					
					
					
Type	SPzS	SPzV	SGi	SGiV	48 V/60 V Front Terminal Battery (SPzV/SGiV)
					
System	vented (VLA)	valve regulated (VRLA)	vented (VLA)	valve regulated (VRLA)	valve regulated (VRLA)
Nominal capacity (10 h)	140 – 700 Ah	120 – 1,100 Ah	75 – 500 Ah	75 – 500 Ah	75 – 1,100 Ah
Voltage	2 V	2 V	2 V	2 V	48 V/60 V
Positive electrode	Tubular PbSbSnSe	Tubular PbCaSn	Round Grid PbSbSnSe	Round Grid PbCaSn	Tubular/Round Grid PbCaSn
Container (UL-94 rating)	PP (HB)	PP (HB/V-0)	PP (HB)	PP (HB)	PP (HB/V-0)
Electrolyte	Liquid	GEL	Liquid	GEL	GEL
Typical discharge time	30 min – 10 h	30 min – 10 h	5 min – 10 h	5 min – 10 h	5 min – 10 h
Water refilling interval ¹⁾	~ 2 years	N/A	~ 2 years	N/A	N/A
Pole bushing	100 % tight	100 % tight	100 % tight	100 % tight	100 % tight
Service life (years)	14	12	10	9	12/9
Cycles IEC 60896-11/-21/-22	> 1,000	1,000	800	600	1,000/600
Float voltage (V/cell)	2.23	2.27	2.23	2.25	2.27/2.25

¹⁾ Under nominal conditions, float service