EXCEN
ATEX TECHNOLOGY

ATEX & IECEx Batteries

EXCEN's ATEX and **IECEx Batteries** are suitable for a **wide range of applications**, from engine cranking to power back up, can be used in combination with EXCEN **Energy Systems** or by System Integrators looking for a battery power supply. Suitable battery chargers are also available upon request.

Full package battery systems made by an enclosure **manufactured in stainless steel 316L or mild steel**, fitted with cells and interconnections. The special design provides lid openings, to ensure natural ventilation of batteries for **safe hydrogen dissipation**.

Extended range starting from 12VDC to 500VDC max 3000Ah (C5) with several battery technologies, within the list of approved brands and models: Lead Acid, Ni-Cd, AGM, Gel, vented and valve regulated.

Tailor-made layouts, painting, additional lifting supports, and other customisations are available as options upon request.

Details

Ambient Temp range:	-60 °C ≤ Tamb ≤ +65 °C
Rating:	12VDC to 500VDC max 3000Ah (C5)
Installation & use:	Stationary and Mobile
Ingress Protection:	IP23 to IP66
ATEX Marking:	II 2G Ex eb IIC T6 Gb
IECEx Marking:	Ex eb IIC T6 Gb

NOTE: Dusts and Mining markings available upon request.

Quality and Certifications

ATEX Certificate N°: SEV 15 ATEX 0163 X
IECEx Certificate N°: IECEx SEV 15.0022X
Certified in accordance with:
Directive 2014/34/EU
EN IEC 60079-0:2018; EN 60079-7:2015;
EN IEC 60079-7:2015/A1:2018
IECEx Scheme
IEC 60079-0:2011; IEC 60079-7:2015

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Sealed Batteries

ELECTRICAL AND MECHANICAL FEATURES

EXCEN Part Number	V	Ah-C20	Batteries (Qty, Brand, Model)	Cable (armoured type)	Cable cross section	Ex d Cable gland in SS316L	Battery Box Dimension L. x W. x H. (mm)	Weight (kg)
16BSFM001014AABX1X0X-00	12	7,2	1x FIAMM FG20721	ÖLFLEX® CLASSIC 110 SY	2x1,5 mm^2	1xM16	182 x 100 x 135	4,8
16BSFM002014ABBX1X0X-00	24	7,2	2x FIAMM FG20721	ÖLFLEX® CLASSIC 110 SY	2x1,5 mm^2	1xM16	185 x 185 x 170	10
16BSFM001017AABX1X0X-01	12	12	1x FIAMM FG21202	GAALSHIP® HF 1000 A FR	2x4 mm^2	1xM20	185 x 185 x 170	7
16BSFM002017ABBX1X0X-09	24	12	2x FIAMM FG21202	GAALSHIP® HF 1000 A FR	2x4 mm^2	1xM20	235 x 185 x 170	10
16BSFM001018AAAX1X0X-02	12	18	1x FIAMM FG21803	GAALSHIP® HF 1000 A FR	2x2,5 mm^2	1xM20	215 x 115 x 230	8,5
16BSFM002018ABAX1X0X-17	24	18	2x FIAMM FG21803	GAALSHIP® HF 1000 A FR	2x10 mm^2	1xM25	235 x 205 x 240	16

TECHNICAL FEATURES

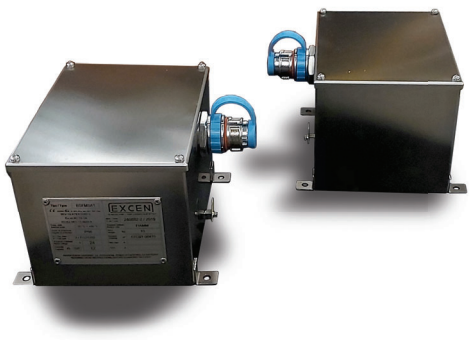
Electrical value:	12V or 24V – 7Ah, 12Ah, 18Ah
Battery Box:	Stainless Steel 316L
Battery technology:	AGM VRLA
Degree of protection:	IP66
Finish:	uncoated (satin finish)
Lid type:	Bolted-on lid
Cable length:	2m
Cable gland:	Stainless Steel 316L
ATEX Marking:	II 2G Ex eb IIC T6 Gb IP66
IECEx Marking:	Ex eb IIC T6 Gb IP66

APPLICATIONS

- **UPS systems**
- **Backup**
- **Safety systems**
- **Emergency lighting**

PRODUCT BENEFITS

- **Suitable for stationary and mobile use**
- **Light, compact and maintenance-free**
- **Non-spillable**
- **Long life high-rate performance**
- **Transport excepted under applicable dangerous goods regulations**



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Medium Batteries

ELECTRICAL AND MECHANICAL FEATURES

EXCEN Part Number	V	Ah-C20	Batteries (Qty, Brand, Model)	Battery Technology	Applications	Use (*)	Battery Box Dimension L. x W. x H. (mm)	Kg	Lid Type
16BSFM001071AAXX1XBX-02	12	109	1x FIAMM 12FLB400P	AGM -VRLA		S	410x275x300	60	Bolted-on
16BSSN002038ABCX1XBX-02	24	25	2x SONNENSCHEIN A512/25G5	VRLA gel		S	410x275x300	37	Bolted-on
16BSFM002065ABGX1XBX-03	24	26	2x FIAMM 12FLB100P	AGM -VRLA		S	410x275x300	44	Bolted-on
16BSSN002040ABCX1XBX-01	24	40	2x SONNENSCHEIN A512/40A	VRLA gel	Telecom	S	410x275x300	47	Bolted-on
16BSFM002066ABGX1XBX-02	24	48	2x FIAMM 12FLB150P	AGM -VRLA	UPS systems	S	460x240x300	46	Bolted-on
16BSFM001068AAXX1XBX-01	12	80	1x FIAMM 12FLB250P	AGM -VRLA	Backup	S	350x240x300	39	Bolted-on
16BSFM002071ABGX1XBX-01	24	109	2x FIAMM 12FLB400P	AGM -VRLA	Safety systems	S	425x420x305	92	Bolted-on
16BSFM002068ABCX1XBX-01	24	80	2x FIAMM 12FLB250P	AGM -VRLA	Emergency lighting	S	425x420x305	72	Bolted-on
16BSSN001038AAXX1XBX-01	12	25	1x SONNENSCHEIN A512/25G5	VRLA gel	Solar systems	S	240x200x250	22	Bolted-on
16BSFM001065AAXX1XBX-01	12	26	1x FIAMM 12FLB100P	AGM -VRLA		S	240x200x250	20	Bolted-on
16BSSN001041AAXX1XBX-02	12	40	1x SONNENSCHEIN A512/40A	VRLA gel		S	240x200x250	24	Bolted-on
16BSFM001066AAXX1XBX-02	12	48	1x FIAMM 12FLB150P	AGM -VRLA		S	240x200x250	24	Bolted-on
16BSSN002051ABCX0XBX-01	24	200	2x SONNENSCHEIN A512/200A	VRLA gel		S	610x610x370	35	Hinged
16BSFM002063ABCX0XBX-01	24	210	2x FIAMM 12FGL210	AGM -VRLA		S/M	610x610x370	170	Hinged
16BSOP001002AAXX1XBX-01	12	75	1x OPTIMA YELLOWTOP D31T	AGM -VRLA		S/M	460x240x300	45	Bolted-on
16BSFM001066AAXX1XBX-01	12	100	1x FIAMM TITANIUM PRO L5100P	Lead Acid		S/M	460x240x300	43	Bolted-on
16BSOP001015AACX1XBX-01	12	50	1x OPTIMA REDTOP 34	AGM -VRLA		S/M	350x240x300	32	Bolted-on
16BSFM001193AAXM1XBX-01	12	70	1x FIAMM TITANIUM PRO L370P	Lead Acid		S/M	350x240x300	32	Bolted-on
16BSOP002002ABCX1XBX-01	24	75	2x OPTIMA YELLOWTOP D31T	AGM -VRLA	Engine start	S/M	425x420x305	80	Bolted-on
16BSFM002201ABCM1XBX-01	24	100	2x FIAMM TITANIUM PRO L5100P	Lead Acid	Automotive	S/M	425x420x305	70	Bolted-on
16BSMD001022AAXM1XBX-01	12	200	1x MIDAC FORTIS 700.088.110	Lead Acid		S/M	580x290x300	68	Bolted-on
16BSMD002022ABCM0XBX-02	24	200	2x MIDAC FORTIS 700.088.110	Lead Acid		S/M	610x610x370	180	Bolted-on
16BSCT002001ABCM0XBX-02	24	210	2x CATERPILLAR 153-5720	Lead Acid		S	610x610x370	170	Hinged
16BSOP002015ABCX1XBX-04	24	50	2x OPTIMA REDTOP 34	AGM -VRLA		S/M	410x340x280	55	Bolted-on
16BSFM002193ABCX1XBX-01	24	70	2x FIAMM TITANIUM PRO L370P	Lead Acid		S/M	410x340x280	54	Bolted-on
16BSSN002100ABCX0XBX-01	24	230	2x SONNENSCHEIN S12/230A	VRLA gel	Solar systems	S	610x610x370	180	Hinged

(*) S= Stationary ; S/M= Stationary/Mobile

TECHNICAL FEATURES

Electrical value:	from 12V 25Ah up to 24V 230Ah
Battery Box:	Stainless Steel 316L
Battery technology:	Lead Acid, AGM VRLA, VRLA gel
Degree of protection:	IP43 (up to IP56 on request)
Finish:	uncoated (satin finish)
ATEX Marking:	II 2G Ex eb IIC T6 Gb
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Stationary Batteries

This range represents **the most distinctive feature of EXCEN Batteries**, that are well-known in the market for being **tailormade solutions** to meet project specifications and space restrictions. Battery enclosures are taylored designed **upon project specifications**, subject to technical analysis and customer's drawing approval.

TECHNICAL FEATURES

Electrical value:	up to 500V 3000Ah (C5)
Battery Box:	Stainless Steel 316L
Battery technology:	AGM VRLA, VRLA gel, Ni-Cd
Degree of protection:	IP43 (up to IP56 on request)
Finish:	uncoated (satin finish)
Lid:	Hinged ***(equipped with additional gas springs for larger sizes)***
ATEX Marking:	II 2G Ex eb IIC T6 Gb
IECEx Marking:	Ex eb IIC T6 Gb

NOTE: Cables and cable glands customer's scope of supply

APPLICATIONS

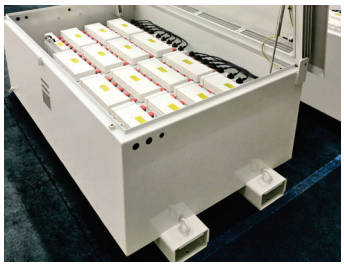
Telecom
UPS systems
Backup
Safety systems
Emergency lighting
Solar systems
Engine start
Automotive

AVAILABLE OPTIONS

Front openings for easy maintenance
Painting for offshore and corrosive atmospheres in accordance with project specification
Sun/Rain canopy bolted on the lid
Special beams at the bottom complete with eye bolts for top lifting
Customised fixing points to accommodate special footprints
Lid equipped with gas springs for easy opening even of the largest sizes
Mounting facility for external Ex d temperature sensors and Ex e junction boxes
Additional Ex d Battery Isolator/Breaker **(in Stainless Steel 316L or copper-free Aluminium alloy)** installed on its side

CASE STUDIES

Application: Battery enclosures suitable for **Solar System**
Battery technology: Ni-Cd
Achieved Requirements:
- Internal & External marine coating as per project's paint spec.
- Gas springs and double handle for an easier lid opening
- Special beams at the bottom complete with eye bolts for the lifting from the top
- External Ex e Junction Box complete



Application: Battery with **Ex d Battery breakers** suitable for **UPS System**
Battery technology: VRLA gel
Achieved Requirements:
- Internal & External marine coating as per project's paint spec.
- Front opening through hinged doors
- Ex d Battery breaker
- Gas springs for an easier lid opening