



**Battery
Kutter**

Solutions for mobile energy



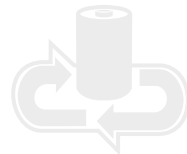
BATTERIES – RECHARGEABLE BATTERIES – ACCESSOIRES

Our partners



RECHARGEABLE BATTERIES

Lead (VRLA), AGM, GEL	6
Lead, AGM, GEL, Wet, Traction, Solar	7
Starter batteries	8
Standard industrial cells	9
Telephone/PDA	10
Entertainment electronics	11
Tool rechargeable batteries	12
Battery pack development	13



STANDARD BATTERIES

Standard batteries	16
Lithium	17
Button cells (electronics)	18



ACCESSOIRES

Charging units	19
Powersupply units/transformers	20
Other accessoires	21
Shipping	22
Internet shop	23





Welcome to Battery Kutter

Battery Kutter was founded in 1989 as a family enterprise. More than 20 years of experience in the battery sector have made us a competent partner for industry. Battery Kutter stands for the production and distribution of batteries and rechargeable batteries of all types, sizes and performance levels. Our special strengths are our competent customer support, reliable delivery and repair service, and the realisation of individual customer requirements.

We cover market demands in widely different areas, such as:

- Development and production of special packs
 - UPS systems
 - Emergency and safety systems
 - Solar technology
 - Mobile electrical equipment
 - Telecommunication
 - Forklifts, automobiles and rehab
 - Mobile phones, cameras and notebooks
 - Charging technology
 - Protective circuitry and BMS
-

Our brochure gives you a cross-section of our product range. Our Website gives an overview of all our products at: www.battery-kutter.de or contact us in person on: **0049-40-611 631 0**

We look forward to hearing from you!

Lead (VRLA), AGM, GEL



For the backup and data protection areas, mostly closed, valve-regulated batteries between 0.8Ah and 65Ah are used. The SUN series, as also types from other manufacturers, offers a large selection of VDS-approved batteries. For the USP system area there are also reliable batteries with lifetimes up to 17 years and high discharge currents.

Line of goods	Sun, Yuasa, Panasonic, Exide and many more
Capacity/voltage	12 V + 6 V from 0.8 Ah to 200 Ah
Type	glass mat and gel
State	sealed, charged
Accessories	optional
Properties	low spontaneous discharge, absolutely maintenance-free
Applications	alarm signalling systems, smoke detection systems, emergency lighting, cleaning machines, solar, UPS
Lifetime	categories 3 to 5 / 5 to 9 / 10 / > 10 years
Cycle stability	high
Quality	high
Degassing	valve-regulated
Charging voltage	13.8 V to 14.8 V

Lead, AGM, GEL, Wet, Traction, Solar



Special areas, such as high-cycle applications (traction) require special constructions. The acquisition costs for A manufacturers are, at first glance, frequently unduly expensive, but are amortised over longer usage times and as a result of less maintenance and improved lifetime – whether forklifts, solar, cleaning machines, telecommunications, diesel generators or USP system applications.



Line of goods	Hawker, Hoppecke, Sonnenschein, Exide, Coslight
Capacity/voltage	2 V to 12 V from 60 Ah to 3000 Ah
Type	glass mat, gel, wet
State	shut and sealed, filled and charged or with dry pre-charging
Accessories	optional, usually with block connector
Properties	extremely high-quality cells
Applications	UPS, solar, diesel start, on-board supply, telecommunication, central alarm signalling systems
Lifetime	8 - 15 years
Cycle stability	high
Quality	very high
Degassing	valve-regulated
Charging voltage	2.2 V to 2.5 V/cell

Starter batteries



To start your car you depend on a reliable battery – regardless of the weather. Our standard Intact brand batteries are the result of many years of experience, making them an indispensable module for your car. In the higher-priced segment we now offer AGM batteries, which are distinguished by their fast charging from the generator even for short distances. The higher density of lead guarantees a significantly longer lifetime and sufficient power at all times for your on-board electronics.

Line of goods	Intact, Varta, Banner
Capacity/voltage	6 V and 12 V from 5 Ah to 225 Ah
Type	wet, AGM, GEL
State	filled and charged, with dry pre-charging
Accessories	optional
Properties	top start performance, very durable and reliable, completely maintenance-free, depending on type
Applications	auto, lorry, marine, motorcycle, aviation, generator, tractors, construction machines, omnibus
Quality	OEM quality
Degassing	valve-regulated or degassing hose

Standard industrial cells



Industrial cells are mostly installed unrecognisably in the battery packs of notebooks, scanners, wireless equipment, or other mobile applications in a plastic housing or in the equipment itself. The pre-selection of the right cell and of the monitoring and charging electronics is essential for the functional reliability of the entire application.

The battery is usually the heart of the system and accordingly should be well planned from the beginning. We offer several hundred cells and technologies and will be pleased to advise you with your choice of Lilon, NiMH or NiCd.

Line of goods	Panasonic, Saft, Nife, Moli E-One, A123, Varta, Sanyio, BYD and more
Capacity/voltage	1.2 V – 3.7 V from 30 mAh - 300 Ah
Type	NiCd, NiMH, Lilon, LiFe, LiPo, VL-vanadium
Accessories	cables, plugs, solder lugs, shrink-down plastic tubing, protective circuitry, charging technology
Properties	high-quality accumulators with long lifetime, for use from -50 to +120°C
Applications	scanners, portables, vehicles, backup systems, emergency lighting, alarm signalling systems, measurement techniques, medical technology,
Lifetime	up to 20 years
Charging voltage	1.4 V to 4.2 Volts/cell

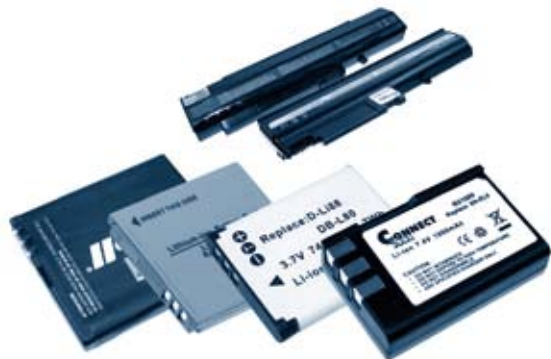
Telephone/PDA



Today, PDA and cordless telephones are your true secretary. SMS, MMS, photographing and telephoning – cell phones are becoming increasingly capable and require ever more power. Our broad assortment offers a huge selection of rechargeable batteries for modern devices and also for older devices.

Line of goods	original and compatible rechargeable batteries
Capacity/voltage	1.2 V to 7.2 V/pack
Type	NiMH, Lilon
State	approx. 30% pre-charged
Accessories	line adapter, auto adapter
Properties	high-quality reconstructions, mostly using the original cells with good protective circuitry
Applications	all consumer applications
Quality	OEM quality
Charging voltage	1.4 V to 4.2 Volts/cell

Entertainment electronics



Whether video, camcorder or digital camera modern devices require considerable power. We offer high-performance batteries for up-to-date and older devices. Our Li-Ion packs are all produced with safety electronics.

Line of goods	original and compatible rechargeable batteries
Capacity/voltage	3.6 V to 36 V/pack
Type	NiMH, Lilon, LiFe
State	approx. 30% pre-charged
Accessories	line adapter, auto adapter
Properties	high-quality reconstructions, mostly using the original cells with good protective circuitry
Applications	all consumer applications, in particular notebooks, DigiCams, Navi and more
Quality	OEM quality

Tool rechargeable batteries



Original rechargeable batteries for tools are very costly. Often we can offer replacement batteries with high-quality cells for devices with housings having screw-connection attachments. Furthermore, in our product line you will find several hundred reconstructed types with very high-quality cells.

Line of goods	cell exchange with NiCd+NiMH and compatible new replacement rechargeable batteries for nearly all manufacturers
Capacity/voltage	2.4 V to 36 Volts
Type	NiCd, NiMH, Lilon
Accessories	line adapter, auto adapter
Properties	use of very high-quality cells
Applications	cordless screwdrivers, press tools, pumps

Battery pack development



Utilise our 20 years of experience in the development of individually produced battery packs. Not only the choice specifically tailored to your application is paramount for us, but also the adaptation of modern monitoring and safety electronics and the right charging technology. Our plant in Warsaw is DIN ISO – certified and also has acceptance by renowned institutions.

Line of goods	all known manufacturers, such as Panasonic, Saft, Sanyo & many more
Capacity/voltage	1.2 V to 3.6V and 10 mA to 300 A per cell installed as packs at the request of the customer
Type	all battery chemistries in the areas of lithium, NiCd, NiMH, VL, and lead
State	according to customer requirements
Accessories	protective electronics, cables, plugs, housings, charging units, GPRS monitoring
Properties	cells chosen and installed according to customer project, including documentation and any certificates
Applications	for all applications





Standard batteries



For long-term applications such as remote control modules, alarm clocks, pocket lamps, etc. we recommend primary batteries, as the use of rechargeable batteries here does not pay. Here we offer a large selection of manufacturers suited to your device.

Line of goods	Panasonic, Duracell, Varta, Sanyo, Camelion, Maxell and many more
Capacity/voltage	1.5 V to 12V from 5 mAh to 30 Ah
Type	all sizes in zinc-carbon, alkaline
Applications	for all common equipment
Lifetime	up to 15 years
Quality	OEM quality

Lithium



The Lithium battery segment is omnipresent and yet not apparent. These tiny batteries have lifetimes of up to 20 years and can be used at temperatures from -20°C up to $+80^{\circ}\text{C}$. Their use is wide-ranging and mostly found in long-term applications, such as heat meters or backups.

Line of goods	Saft, Tadiran, EVE, Maxell, Ultralife and many more
Capacity/voltage	3 V to 6 V from 1 mAh to 60 Ah
Type	Li-SOCL ₂ , Li-MnO ₂ , Li-CFn, LiFeS ₂
Properties	extremely long shelf life thanks to very low spontaneous discharge
Applications	backup standby applications and equipment with low current drain
Lifetime	up to 20 years

Button cells (electronics)



In nearly every tiny electronic device there are button cells to drive LEDs or mostly to maintain the memory functions of the chips. In this segment there are enormous differences in price and quality. The storing of your data is important. Ask for our advice and don't save at the wrong place.

Line of goods	Varta, Maxell, Panasonic, Camelion
Capacity/voltage	1.5 V to 3.6 V from 1 mAh to 2 Ah
Type	Li-SOCl ₂ , Li-MnO ₂ , Li-CF _n , LiFeS ₂ , alkaline, silver oxide
State	also available with solder lugs / pins or cables and plugs
Accessories	in blister or industrial palletising according to customer requirements
Properties	widely different applications with varying quality
Applications	backup standby applications and equipment with low current drain
Lifetime	up to 20 years
Quality	from very low (AG alkaline types) to very high quality Li-MnO ₂ or silver oxide

Charging units



Professional charging units properly matched to your application are the basis for making one-hundred percent use of capacity and a long lifetime. Too often the charging technology is given too little attention, and this is wrong. Proper matching to your rechargeable battery is essential for performance. Our product range offers high-quality manufacturers, which also develop customised and project-oriented types for you.

Line of goods	Mentzer, 4Load, Fronius, Ansmann and many more
Capacity/voltage	0.5 V to 760 V from 10 mA to 1.5 KW
Type	for all accumulators, according to customer requirements
State	industrial or consumer packaging
Accessories	cables, terminals, screws, etc.
Properties	customised programming or production also available
Applications	automobile, UPS, fork-lifts, cleaning machines, battery operated machines and much more

Power supply units / transformers



In the area of power supply units we can also offer replacements for your defective equipment or a customised solution tailored to your application. Particularly in the area of transformers we can develop solutions for you which drastically reduce the consumption of your equipment.

Line of goods	Mentzer, Fronius, Benning, own developments
Capacity/voltage	All categories of AC/DC and DC/DC
Type	Safety class and DIN according to customer requirements
Applications	Industrial equipment, shipbuilding, small appliances, diesel start and much more

Other accessories



Naturally you will also find all types of accessories from the world of batteries and rechargeable batteries with us. We supply and prefabricate special cables, plugs and solder lugs according to customer requirements. We also produce made-to-measure racks for your USP with the right electrolyte tank. You can order CAD dimensional drawings or housing tools just as easily as simple terminal caps, block connections or contact grease.

Shipping

Our large standard product line can be called up at all times and your order delivered in most cases within 24 hours.

We ship with reliable logistics partners, such as Dachser, DPD or NET.

Besides the normal package, we also offer customer-oriented solutions to ensure that your order is safely and, above all, punctually delivered to every destination – whether to a green meadow on which a telephone pole is standing or direct delivery to your technical personnel's vehicle. Individual shipping requests are no problem for us.



Visit our Internet shop

You'll find an overview of all our products in our Internet shop at

www.battery-kutter.de

Here you can shop conveniently 24 hours a day.

If you need help, our competent customer support team is of course ready to personally assist you.





**Battery
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Solutions for mobile energy

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