

# ACTRON

THE POWER OF YOUR PRODUCT



# PRODUCTS



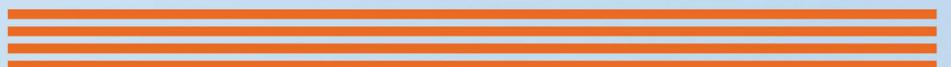
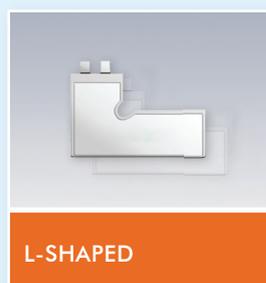
## ACTRON POWER PRODUCT OVERVIEW

### LITHIUM-POLYMER CELLS

Thanks to our partner Grepow's unique process technology, we can offer special formats of lithium polymer cells with high capacities, even in small to medium quantities. Whether curved, ultra-flat, vase or crescent-shaped, or whatever special shape you need, we can help customers maximise utilisation of their available space and optimise the cell's volume to achieve significantly longer operation time.

Prismatic Lithium-Polymer cells with a capacity of up to 10,000 mAh are also available. Depending on the customer's requirements, we help to select the ideal cell, based on the criteria of high energy density, extended temperature range, „high C-rate“ or longer lifetime.

Many of these cells already come with various certifications, such as UL, IEC or UN. If you require Lithium-Polymer cells in assembled form, for example as a battery pack including a battery management system (BMS), simply contact us with your requirements and allow us to advise you.



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## CYLINDRICAL LITHIUM-ION CELLS

Cylindrical type rechargeable Lithium-Ion cells are also part of the ACTRON POWER product portfolio. We supply a range of round cells in standard formats such as 14500, 18650, 21700 or 26650, from renowned manufacturers such as Samsung, LG, Panasonic, EVE or BAK. Alternatively, ACTRON POWER offers cylindrical cells from select Chinese manufacturers that are less well-known in Europe, offering proven quality at low cost.

Depending on customer requirements, ACTRON POWER also provides special sizes, such as 14250, 14650, 16650, 18500, 32140 or prismatic form, also in „LiFePo4“ technology.

Our expertise covers the assembly of Lithium-Ion cells, e.g. as a battery pack with BMS and an ultrasonic welded plastic housing.

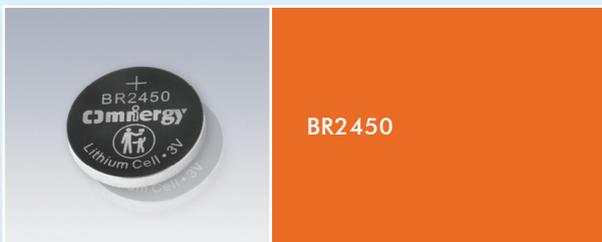


## COIN CELLS LITHIUM-MnO<sub>2</sub>

Through our partner Power Glory, we offer a complete portfolio of primary coin cells, ensuring high quality and at remarkably competitive pricing. Examples of standard sizes are CR1025, CR1632, CR2025, CR2032, CR2450 or CR2477.

Special coin cells with very high temperature resistance (e.g. -40°C to 105°C), high longevity and very low self-discharge, such as BR2032, BR2450 or BR2477, are also available. These cells are very popular for use in smart metering, ESL or RC applications.

The cell can be customised according to specific customer requirements, for instance, supplemented with a „super-capacitor“ or printed with customer’s own branding. Customization of button cells is possible even at low- to medium quantities, a significant advantage over local European vendors.



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## PRIMARY LITHIUM CELLS

In addition to rechargeable Lithium cells, we also offer primary cells in various technology variants, such as Li-MnO<sub>2</sub>, Li-SOCl<sub>2</sub> and Hybrid Pulse Capacitor. These cells set themselves apart from the competition with their very high energy density, long lifetime and reliability, as well as high temperature resistance and capacities of up to 36,000mAh for cylindrical cells.

Our range of primary cells is available in various designs such as cylindrical or prismatic (pouch cell). Many of these cells in the ACTRON POWER portfolio are already certified and can be offered in assembled form. Typical applications are smart metering, tracking or UPS systems.



## BATTERY PACKS

One of our main strengths is the design and construction of customised battery packs - combined with low minimum order quantities and attractive prices. Whether you need a pack based on cylindrical (e. g. 18650 or 21700 cells) or Li-Polymer cells, in a hard or soft case, we are the perfect partner for you.

If you need to increase the voltage or capacity of the packs, we can also offer you multiple cells connected in parallel or in series. We ensure customers receive professional consultancy from our product experts, for instance on the right protective circuit (PCM) or BMS, soft or hard case design (e.g. ultrasonic welded plastic housing) and any necessary certifications.

In addition to the battery pack, ACTRON POWER can provide suitable charging solutions.

If required, we are happy to assist you in the selection of the required certifications for your customised battery pack, and even arrange for the certifications to be carried out locally, leaving our customers to focus on their product design.



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