

Design study

Smart glasses



Augmented Reality Glasses

While Virtual Reality glasses are taking up the market for gaming, new applications are starting to become the next big thing in Industrial environment. The systems communicate unobtrusively with the user and allow new approaches for product design, repair and maintenance, entertainment and even medical while assisting chirurgical operation.

AR need to support of a wide range of specialized low power sensors for audio and video, eye tracking and positioning sensors combined with low power camera and loudspeaker as actors.

Battery challenge

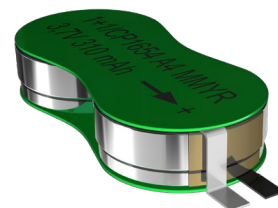
Highest energy density, robustness and safety of the battery cell is decisive to user acceptance design shape and therefore gets highest design attention.

Technical solution

FEATURES	BENEFITS
<ul style="list-style-type: none"> Round flat form factor Robust stainless steel housing High energy density 	Fits perfectly in to the dedicated shape of the whole device
<ul style="list-style-type: none"> Patented cell design 	Perfect energy density across miniature Li-Ion cells on the market
<ul style="list-style-type: none"> Low weight Broad range of cell sizes 	Allow flexible design shaping and keeps the glasses thin perfect for comfortable user experience

CoinPower CP1654 A4 – a possible solution for smart glasses

CHARACTERISTICS	COINPOWER CP1654 A4
Typical Capacity	Single cell: 155 mAh Two cell pack: 310 mAh
Dimensions	Height down to 4 mm Diameter down to 9.4 mm
Discharge current	300 mA continuous 450 for 2 sec pulsed
Cycle Performance	>500 Cycles (>80 % of initial Capacity)
Safety Features	Robust Stainless-Steel Housing with venting design.



Lithium-Ion Coin Cell – CoinPower

The CoinPower series with cells from 16 to 155 mAh offer the highest energy density with an outstanding cycle life performance for wearable medical and healthcare solutions. Outstanding safety features will make this battery the perfect rechargeable battery solution. The CoinPower is exclusively produced on fully automated production lines in Germany to ensure a maximum production accuracy on every single cell.

- Highest safety feature on the market
- Discharge current up to 3C
- Best-in-class Cycle Life Performance
- Design flexibility by using tags, wires or just the bare cell with cell holder
- UL, IEC and UN IATA recognized cell
- Reliability – Made in Germany

For further information, contact us: coinpower@varta-microbattery.com