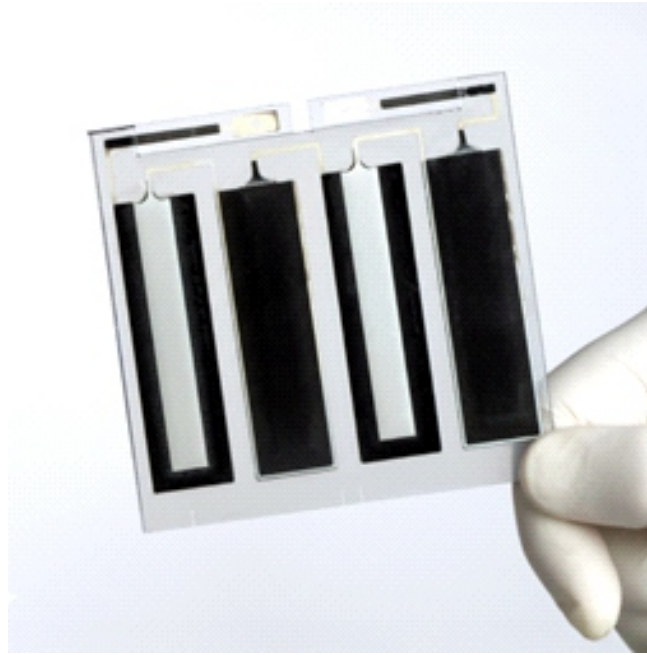




Printed Battery Flexible Screen-Printed Power Solution

Lightweight, flexible, customizable voltage batteries.

Printed Batteries Are An Innovative Power Source Manufactured Using Screen-printing Technology On Paper Or Plastic Substrates. They Are Lightweight, Flexible, And Made Without Toxic Materials—ideal For Low-power, Disposable, Or Flexible Electronic Devices. Keetronics' Printed Battery Technology Uses Only Seven Printed Layers To Create A Compact And Eco-friendly Energy Solution. With Customizable Voltage, Size, And Form Factor, These Batteries Are Designed For Modern Smart Surfaces, IoT Devices, Medical Patches, And Single-use Electronics.

SPECIFICATIONS :

- Technology: Screen-printed Zinc–ZnCl₂–MnO₂ battery
- Layers: 7 (Silver, Carbon, Zinc, MnO₂, Electrolyte, Barrier, Hot Melt Glue)
- Substrate Options: Paper, PET foil, or disposable plastic

Configurations:

- Zinc–MnO₂ Flexible – printed on blister foil
- Zinc–MnO₂ Standard – printed on PET foil (rigid)
- Custom Designs – tailored voltage, size, and geometry

Performance Range:

- Open-circuit voltage: 1.5 – 6 V
- Short-circuit current: 30 – 70 mA
- Storage capacity: 1 – 5 mAh
- Maximum Thickness: 350 microns

Key Features :

- Printable on paper or plastic substrates
- Only seven printed layers for efficient production
- Lightweight and flexible construction
- No toxic or corrosive chemicals used
- Energy-efficient screen-printing process
- Easily disposable and recyclable
- Customizable shapes and sizes
- Maximum thickness: 350 microns

Advantages :

- Lightweight and ultra-thin design
- Fully printable using standard screen-printing machines
- Environmentally friendly: no hazardous materials
- Customizable performance and design
- Cost-effective for large-volume production
- Easily disposable and recyclable
- Supports sustainable product design

Application :

- Smart packaging and electronic labels
- Disposable medical devices (e.g., diagnostic test kits, health sensors)
- Wearable electronics and skin patches
- Printed sensors and microcontrollers
- RFID tags and smart cards

Technical Specifications :

Model Number	PE Battery
Category	Functional Printed Electronics