



# The Solid-State Circuit Breakers revolution starts here!

## Power infrastructure is under unprecedented stress.

*Electricity demand is surging, driven by massive electrification and the growth of AI infrastructure. Power flows are becoming increasingly complex and bidirectional as renewable penetration increases. Buildings, industrial sites and electric vehicles are turning into active energy hubs. Next-generation power infrastructure is no longer optional. Yet, the lack of appropriate protection and control technologies is turning into a major deployment bottleneck.*

### Power systems protection still relies on a century-old technology.

Electromechanical breakers were designed for:

- Centralized generation
- Predictable demand
- Unidirectional flows

That world no longer exists, and they are becoming a structural limitation for modern power systems.

### Solid-State Circuit Breakers are set to become the protection gold standard.

Solid-State Circuit Breakers overcome the limits of traditional protection technologies while enabling real-time intelligence across power systems. They transform electrical distribution from a passive infrastructure into an actively managed digital system.

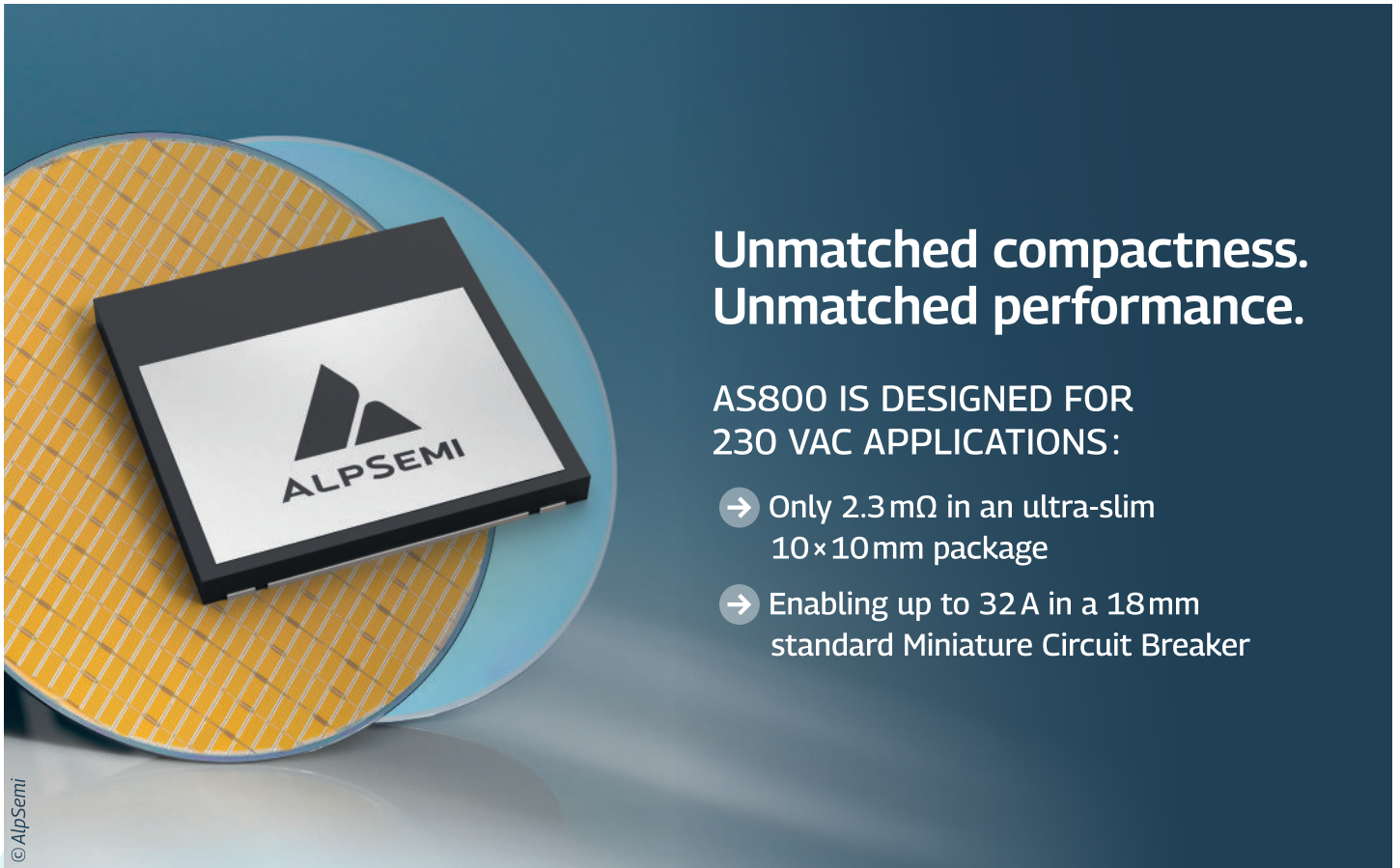
But so far, their adoption has remained limited. Why? The lack of suitable power semiconductor solutions enabling their large-scale deployment.

**AlpSemi has removed the adoption barrier preventing SSCBs mass deployment**

Our unique power switches enable large-scale Solid-State Circuit Breakers deployment through unmatched compatibility with existing panels, manufacturing flows and installation standards.

# AS800

## The first power switch purpose-built for Solid-State Miniature Circuit Breakers



**Unmatched compactness.  
Unmatched performance.**

AS800 IS DESIGNED FOR  
230 VAC APPLICATIONS:


- Only 2.3 mΩ in an ultra-slim 10×10mm package
- Enabling up to 32A in a 18mm standard Miniature Circuit Breaker

**AS800 is the first step in a unique roadmap to scale Solid-State Circuit Breakers across high-voltage AC and DC applications, driven by grid digitalization and AI massive adoption.**

AlpSemi is enabling the next wave of sustainable electrification by extending its core wide-bandgap technology stack to address higher voltages: 800 VDC, 1200 VDC, and beyond.

→ **Let's stay in touch!**

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