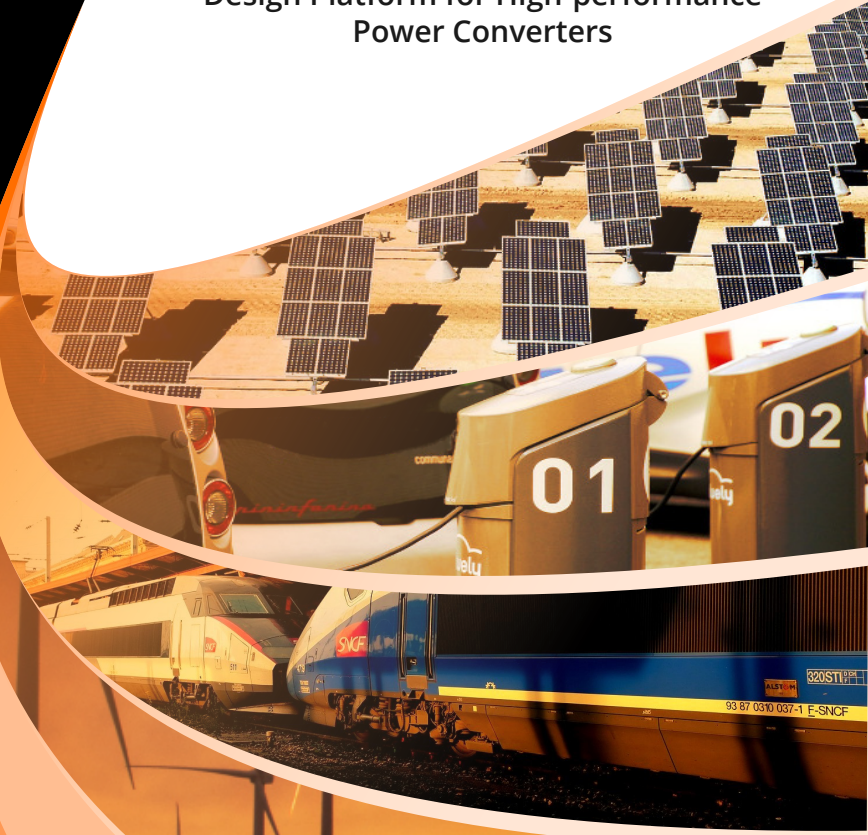




**POWER FORGE**  
Multilevel by design

Design Platform for High-performance  
Power Converters





# PowerForge: A game-changing tool for power converter design

The first platform for design, exploration and comparison of advanced power converter designs

**PowerForge is a powerful platform for designing, exploring and comparing power converter designs.** Thanks to multidisciplinary integration, PowerForge empowers development teams with a unique tool for designing **lighter, smaller** and **more efficient** converters in record time.

Centered around the engineer's workflow, PowerForge offers a **seamless experience** from product specification stages to trade-off of most complex multilevel topologies and sizing of passive and active components.

## Key Benefits



### Design cutting-edge converters

- Lighter
- Smaller
- More efficient



### Reduce time-to-market

- From specification to design in minutes
- Ready-to-use simulation files



### Streamline your design workflow

- All-in-one platform for early stage design
- Real-time multi-site collaboration

## WORKFLOW



SPECIFY



EXPLORE



COMPARE  
AND CHOOSE



FURTHER PRODUCT  
DEVELOPMENT

## PowerForge Features

### Bidirectional conversion stages from kW to MW

- Non-isolated DC/DC
- 3-phase DC/AC

### Automated design generation from 2-level to multilevel

- 3-level Neutral-Point Clamped (3L-NPC)
- 3-level T-type (3L-T-type)
- Stacked MultiCell (multilevel SMC)
- Parallel interleaved Flying Capacitor (multilevel FC)

### Libraries of public references

- Discretes and modules of IGBTs & MOSFETs
- Magnetic powder alloys & ferrites
- Plastic film capacitors
- Thermal interfaces

### Private references in library

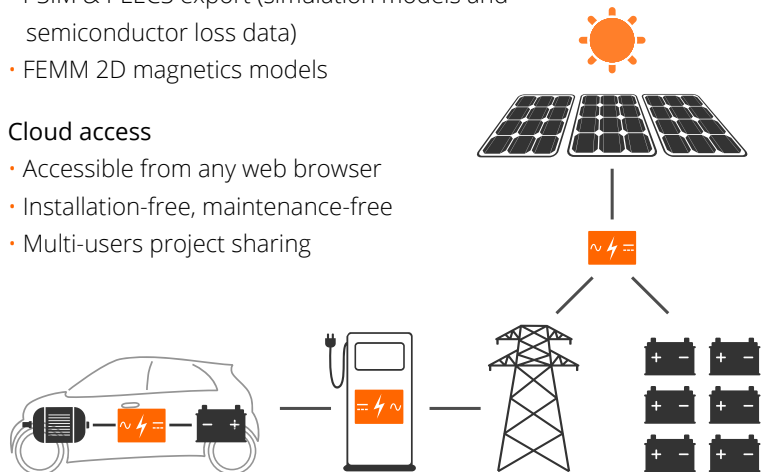
- Private discrete and module (leg, T-type, NPC) library references, providing loss data in Plecs XML format
- Private semiconductor package footprints

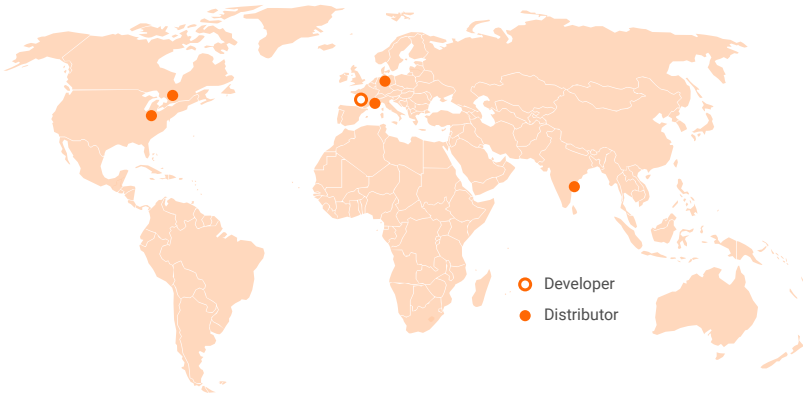
### Ready-to-use file exports for industry-standard software

- PSIM & PLECS export (simulation models and semiconductor loss data)
- FEMM 2D magnetics models

### Cloud access

- Accessible from any web browser
- Installation-free, maintenance-free
- Multi-users project sharing





- Developer
- Distributor

### ○ Worldwide

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