



ULTIMA-X

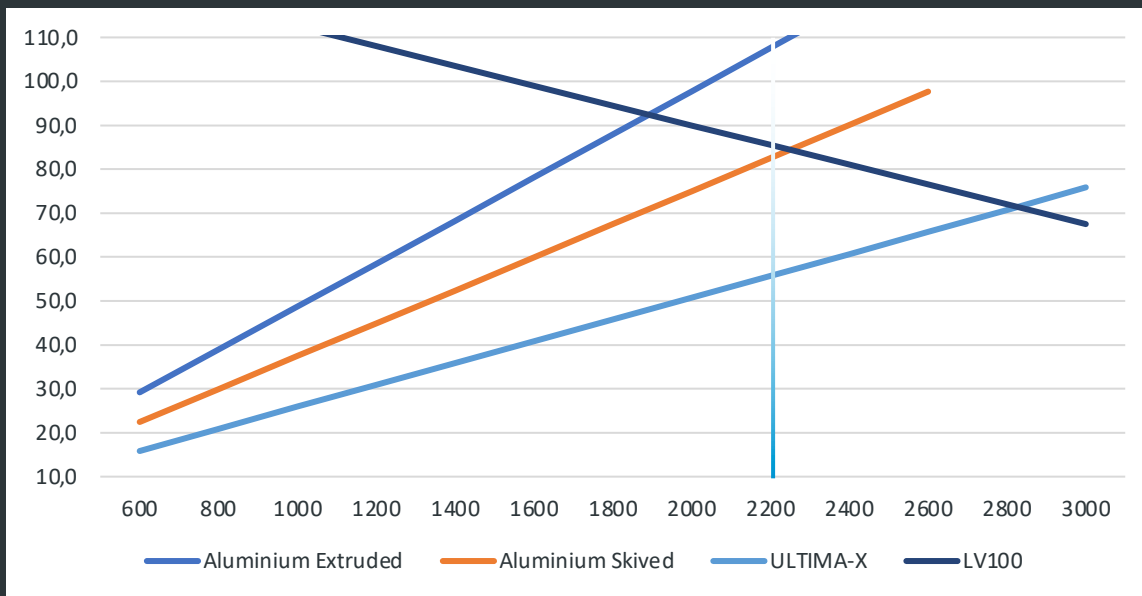
**Free-form design. Enhanced NEOcore-X evaporator.
Integrated vapor chamber and thermal channels.**

The next generation of the most efficient air cooling is here. ULTIMA-X combines an expanded baseplate with patented NEOcore thermal channels, delivering improved, integrated 3D phase-change technology for high-density converter and inverter designs.

Whether you are replacing aluminium heat sinks or rethinking your full power stack, ULTIMA-X is a modular choice for stacks with rising power densities. Featuring the fully aluminium NEOcore-X evaporator, it eliminates thermal interfaces inside the heat sink, enabling the utilization of the whole heat sink structure.

Designed for high-power-density IGBT and SiC module applications, ULTIMA-X is the air-cooled solution for both new builds and complex upgrades.

**Perfect for: AC Drives, EV Charging Stations, Lifts,
Solar Converters, BESS, UPS Power Sources.**



Eliminate Hot Spots. Extend Lifespans.

CooliBlade heat sinks run cooler and make power modules last longer than anything aluminium can deliver at high power density. The reason is NEOcore: a patented two-phase cooling system with an expanded baseplate that spreads heat in three dimensions the moment it leaves the module surface. Benchmarked head-to-head against skived aluminium under identical airflow and load, NEOcore-equipped ULTIMA-X runs up to 27 °C cooler at the surface and up to 52 °C cooler against an extruded aluminium heat sink. [Initial simulated performance, ULTIMA-X & LV100 @ 40 °C ambient]



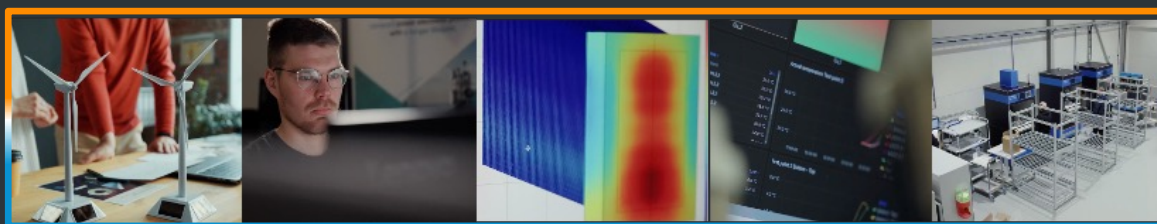
Cooler than skived aluminium at 2 200 W



Cooler than extruded aluminium at 2 200 W



Higher power densities unlocked for next-gen SiC modules



Drop-in Ready. Or Designed Around You.

ULTIMA-X fits the installation envelope of conventional heat sink solutions – with significantly better thermal performance. And when the application calls for something purpose-built, we engineer the solution around your geometry, not the other way around.

Multi-Module Coverage: ULTIMA-X introduces an expanded baseplate that, for the first time, serves multiple power modules from a single unit.

Scalable by Design: Pipe length extends and air interface height increases to match your power requirements, and the NEOcore-X evaporator eliminates unnecessary thermal interfaces.

Free-Form Geometry: ULTIMA-X enables free-form heat sink design, giving product designers more freedom to work around complex enclosures and irregular module layouts.