POWERING AI

Megawatt AI racks start here

Three power supply unit (PSU) demonstration boards show how to maximize efficiency and density for megawatt AI racks. Highlights include GaN and SiC devices, paired with advanced gate drivers, sensors, and digital controllers.

Benefits

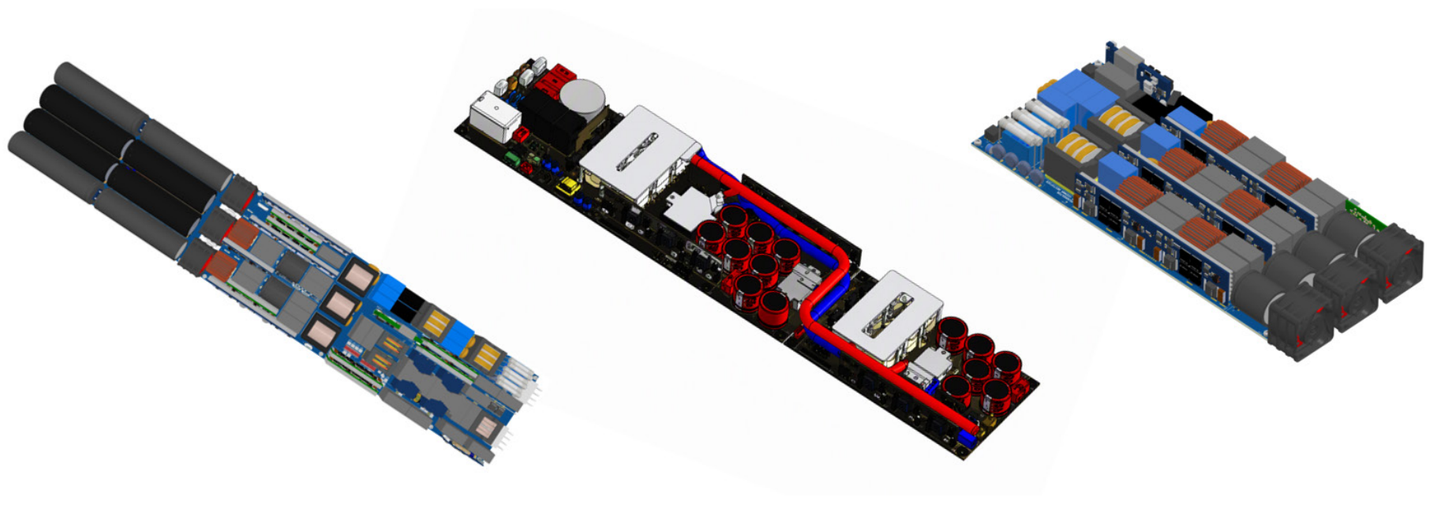
- 27 kW high-density PSU
- 30 kW water-cooled PSU
- 30 kW interleaved T-type PFC
- Highest efficiency and density
- PFC stage: 5-level ANPC / T-type
- DC-DC stage: high-frequency, 3-level LLC with integrated magnetics
- Energy buffer circuit for grid shaping

Highlight products

- 1200 & 650 V CoolSIC™
- 650 V CoolGaN™ bidirectional switch
- PSOC™ C3 P8 MCU
- EiceDRIVER™ gate drivers
- XENSIV™ current sensor
- CoolSET™

Applications

- 3-phase AC input
- 400 V / 800 V output
- Cold plate liquid cooling
- Module design in 1U form factor



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