

650 V GaN in PC Gaming Power Supplies



Early 2018, PC gaming product manufacturer CORSAIR released the AX1600i 1.6 kW power supply.

The Titanium 80 PLUS® PSU uses Transphorm's high voltage TPH3205WS GaN FETs in an interleaved bridgeless totem-pole PFC. As a result, it exhibits all of the benefits that Transphorm's GaN brings to end products. When compared to its award-winning predecessor (the AX1500i), the AX1600i offers numerous advantages ranging from higher efficiency to higher power output—all at the same price point. And, product reviewers have taken notice:

"CORSAIR managed to again shake up the PSU market with another masterpiece. It is the Ferrari among PSUs, combining high performance in all sections with incredibly high efficiency throughout."

TECHPOWERUP

"The CORSAIR AX1600i is the best PSU that money can buy today, period."

tom's HARDWARE
THE AUTHORITY ON TECH

"If you value having the highest quality power driving your system then the CORSAIR AX1600i stands high in a class of few others. For the ultra high end target audience, it is surely a wise choice."



The AX1600i PSU



Transphorm GaN benefits:

- 1-2% AC to DC efficiency increase; yielding greater than 99%
- 100 W power increase from 1.5 kW to 1.6 kW
- 6.3% reduced system cost from 0.30 \$/W to 0.28 \$/W
- 12.5% smaller enclosure (by 25mm)
- Same thermal performance
- A 10 year warranty