

GaN 250W ATX Power Supply

Product Overview

- Silent, fanless operation with advanced GaN (Gallium Nitride) technology
- Ultra-compact design: 170 × 55 × 25mm, full aluminum alloy body for optimal heat distribution
- Industry-leading power density: 1.18W/cm³ (breaks 1W/cm³ barrier)
- Scalable solution: Pairs for up to 500W output with included sync cable
- Perfect for: SFF/HTPC, studio, and professional audio applications



Key Specifications

Cooling System	100% passive, fanless, silent operation
Input Voltage	Universal 100–240V AC, 50/60Hz
Maximum Output	250W continuous (500W when paired)
Power Topology	Advanced LLC + PFC with GaN FETs
Efficiency Rating	Up to 94% at full load (Level V standard)
Output Type	Modular ATX connector system
Capacitors	Rubycon electrolytic + solid state, 9000μF total
EMI Filtering	Triple-stage AC EMI/Noise suppression
Mounting Options	Rear: 122.3×43.3mm, 144×33.3mm; Front plate included
Sync Capability	Yes, enables dual-PSU 500W passive operation

CONTACT US

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Technical Specifications

Enclosure Material	Full aluminum alloy construction
Physical Dimensions	170 × 55 × 25 mm
Weight	To be specified based on final design
Switching FETs	4× automotive-grade GaN transistors
Rectification	4× 1KV 8A TTR8MF synchronous rectifiers
Transformer	Unibody flat design, 4-layer 2oz copper PCB
Power Density	1.18W/cm ³
Standby Power	< 0.5W (Energy Star compliant)

Protection & Reliability Features

- Comprehensive Protection: Overcurrent, overvoltage, overtemperature, and short-circuit protection
- Premium Components: 1% high-accuracy resistors, premium capacitors for long-term stability
- Quality Assurance: Automotive-grade components for maximum reliability

Package Contents

- 250W GaN Passive PSU unit
- Complete modular ATX cable set
- Front mounting plate assembly
- Sync cable for dual-unit operation
- Installation guide and warranty documentation

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