

XPA-0727-200

RF Power Amplifier

Introduction

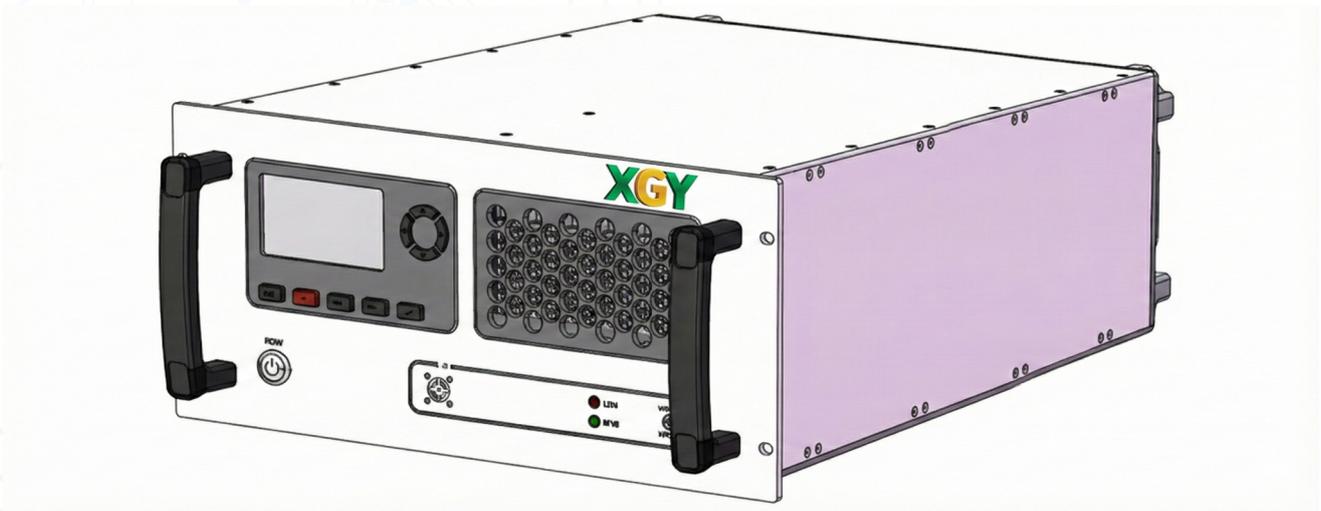
The XPA-0727-200 is a high-reliability power amplifier from XGY's XPA Series, utilizing a complete solid-state solution. It is designed for diverse applications such as wireless telecommunications, medical, and EMC testing, featuring a standardized enclosure for easy cabinet installation and an efficient, self-contained cooling system.

To ensure stable operation, the unit integrates a user-friendly interface with various protection mechanisms against overheating and electrical mismatches. It also supports standard remote control interfaces and offers customizable options to adapt to specific professional testing environments.



Features

- Advanced Solid-State Technology
- High-Performance Output
- Rapid Switching Capability
- Standardized Industrial Design
- Comprehensive Safety Protections
- Efficient Thermal Management
- Versatile Remote Control
- Customizable Configurations



Specifications

Category	Parameter	Specification / Index	Remarks
Electrical	Operating Frequency	0.7 ~ 2.7 GHz	
	Output Power	200 W	CW
	Max Input Power	0 dBm	CW
	Duty Cycle	≤10%	Pulse width: 10us-100us
	Input Impedance	50 Ω nominal	VSWR ≤2.0:1
	Rise & Fall Time	≤100 ns	Switching time
	Gain	≥53 dB	
	Gain Flatness	±4 dB	Rated output power
	Harmonics	≤-15 dBc	Rated output power
	Out-of-Band Clutter	≤-50 dBc	Offset from main signal 200kHz
	Operating Voltage	AC 220 ±10% V	50/60Hz, current ≤10A
Functional	Over-VSWR	5	Alarm activated, PA stops if VSWR > 5
	Over-heat	70°C	
	Over excitation	Supported	Stops if output > rated due to high input
Environmental	Operating Temperature	0°C ~ +40°C	
	Storage Temperature	-10°C ~ +50°C	
	Relative Humidity	≤90%	
Physical	Dimensions (WxLxH)	448mm × 600mm × 225mm	5U rack mount
	Connectors	N-K Type	Input, Output, & Coupling (Rear Panel)
	Control Interface	GPIB, LAN	Communication protocol provided
	Cooling Method	Forced air cooling	Self-contained
Options	I/O Position	Front panel connectors	Optional configuration
	Safety	Safety lock DB15	
	Adjustments	Gain adjustment	
	Monitoring	Humidity alarm / Cloud box	