

FLEX Power Amplifier Solutions

FPA-1K and FPA-5K Preliminary Specifications

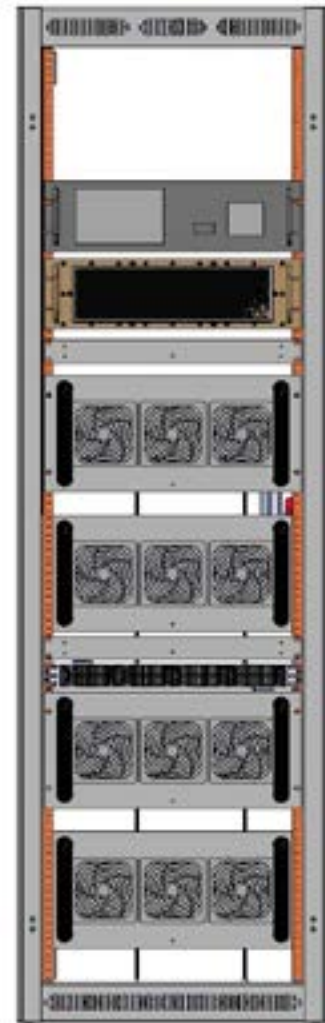
HIGH EFFICIENCY CLASS AB HIGH POWER AMPLIFIER FOR DEMANDING APPLICATIONS

The FlexRadio FPA series, including the FPA-1K and FPA-5K, redefines HF amplifier performance by combining state-of-the-art amplification, protection, and efficiency, all powered by a robust Ethernet API.

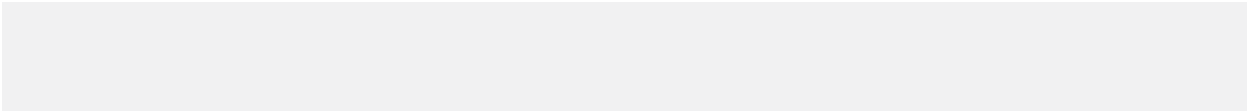
Designed for seamless operation with FlexRadio's ML-9600 or easily adaptable to customer-specified exciter requirements, the FPA series ensures maximum flexibility and operational reliability.

Key Benefits

- **Unmatched Efficiency:** High-performance amplification and advanced thermal management optimize energy usage and reduce heat.
- **Simplified Operation:** Thin, web-based interface provides intuitive real-time monitoring and control from any device.
- **State-of-the-Art Protection:** Advanced systems minimize downtime and prevent costly maintenance.
- **Reliable, Continuous Performance:** Built for 100% duty cycle, delivering uninterrupted operation in demanding environments.
- **Future-Ready Design:** Ethernet API enables software-defined upgrades to meet evolving standards and needs.



For more information, contact sales@flexradio.com



General	FPA-1K	FPA-5K
Frequency Range	1.7 MHz - 29.999 MHz	2.7 MHz - 30 MHz
Power Output	1000 watts PEP	5000 watts Continuous
VSWR Performance	1.3:1 or less VSWR	<2:1
Duty Cycle	100%, all Modes	100%, all modes
Full Duplex RX/TX Operation	Yes	Yes
Output Impedance	50-ohm	50-ohm
Output Connector	Type-N (stock)	Type-HN (stock)
Amplifier Control	Ethernet API, RS-422	Ethernet API, RS-422
Input RF Power	+10 to +20 dBm digitally selectable	+10 to +20 dBm
Power Requirements	208-220 VAC, Single Phase	208-220 VAC, Single or Three Phase
Remote Metering	Voltage, Current, RF Forward and Reflected Power Output, VSWR, Temperature, BIT	Voltage, Current, RF Forward and Reflected Power Output, VSWR, Temperature, BIT
Environmental		
Ambient Temperature	0 – +50C operating, -40 to +75C storage	0 – +50C operating, -40 to +75C storage
Humidity	95% (non-condensing)	95% (non-condensing)
Cooling	Forced Air	Forced Air
Thermal Management	Continuous, multi-sensor, foldback, protect	Continuous, multi-sensor, foldback, protect
Cabinet Requirements	4U (short) Rack Mountable	Customer Selectable, 22U