

MILMEGA 'AS' Series Solid State Amplifier Range

Model: AS0860-50

0.8-6.0 GHz 50-Watt Linear Broadband Power Amplifier

This innovative amplifier combines a compact design with market leading performance. Its ability to operate into any load without fold back makes this an ideal amplifier for a variety of Telecom, Instrumentation and EMC applications. The amplifier is supported via Milmega's AS series five-year parts, labour and shipping warranty and supported by local in country service networks.

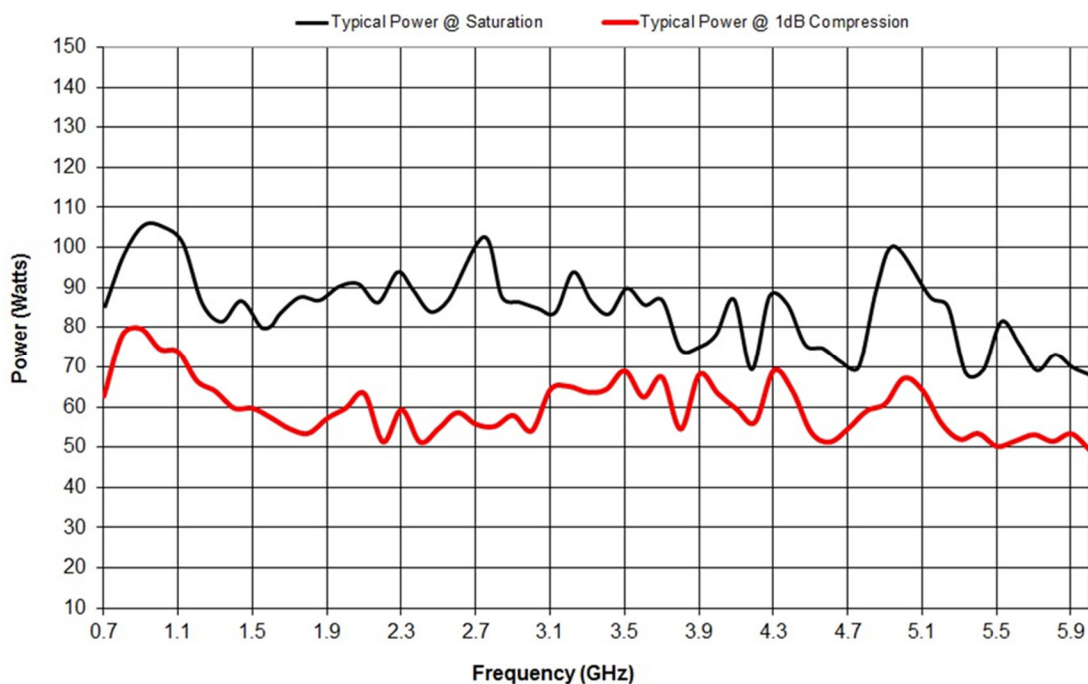
Along with a simple to use informative touch screen display the AS0860 series is fitted with multiple remote interfaces, RS232, USB, Ethernet and GPIB as standard. The amplifier chassis is designed ready for a simple upgrade to higher power levels by the addition of extra power modules into the existing mainframe up to 200 watts P1dB.

The GaN balanced pair design at the core of the amplifier ensures a high reliability, linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

Powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is air-cooled with integral fans, is protected against faulty cooling by excess temperature sensing. A safety interlock connector is provided, which the user can short circuit to ground, to put the amplifier into standby mode.



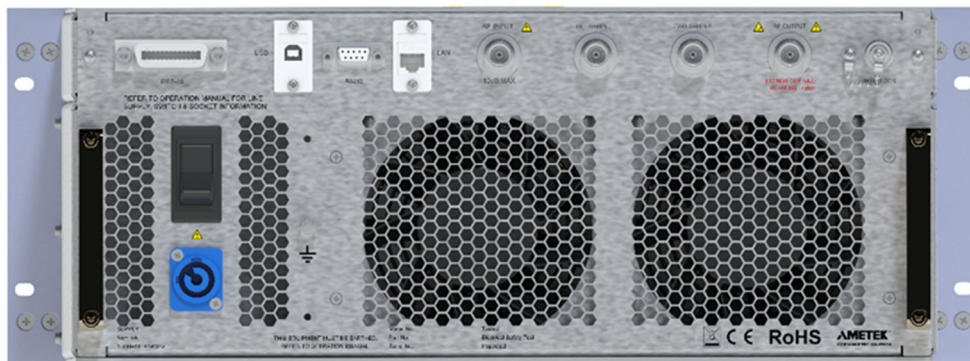
- Class A Operation
- Mismatch tolerant and unconditionally stable
- Calibrated Dual Directional Coupler fitted as standard
- Ethernet, USB, RS232 & GPIB fitted as standard
- 5-year parts and labour warranty.



Amplifier Specification

| | |
|---------------------------------|---------------------------------|
| Frequency | 0.8 to 6.0 GHz |
| Psat (min) | 60 W |
| P1dB (min) | 50 W |
| Gain (min) | 47.0 dB |
| Gain Variation (max) | +/- 3.0 dB |
| Gain Control | 0-20 dB in 255 Steps |
| Harmonics at P1dB | -18dBc (Typical) |
| Third order intercept point IP3 | 10dB > P1dB |
| Input Power (no damage) | +15 dBm |
| Output VSWR tolerance | Infinite any phase |
| Stability | Unconditional |
| Output impedance | 50 Ohm |
| Output VSWR | 2:1 typical |
| Input VSWR | 2:1 max |
| Spurious | -70 dBc (min) -80 dBc (typical) |
| Noise figure | 8.0 dB |
| Safety interlock | Via rear panel BNC connector |
| Supply Voltage – 1 Phase | 85 to 264 VAC |
| Supply Frequency | 47 to 63 Hz |
| Supply Power | < 0.65 kVA (typical full power) |
| RF Input | Type N female |
| RF Output | Type N female |
| Dimension | 19 inches, 4U 615 mm Deep |
| Weight | 20 kg |

Amplifiers that meet today's and tomorrow's needs through upgradability.



Specifications subject to change without notice. MILMEGA is an ISO accredited Company. Products are designed and manufactured under strict quality and environmental requirements of ISO 9001.

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