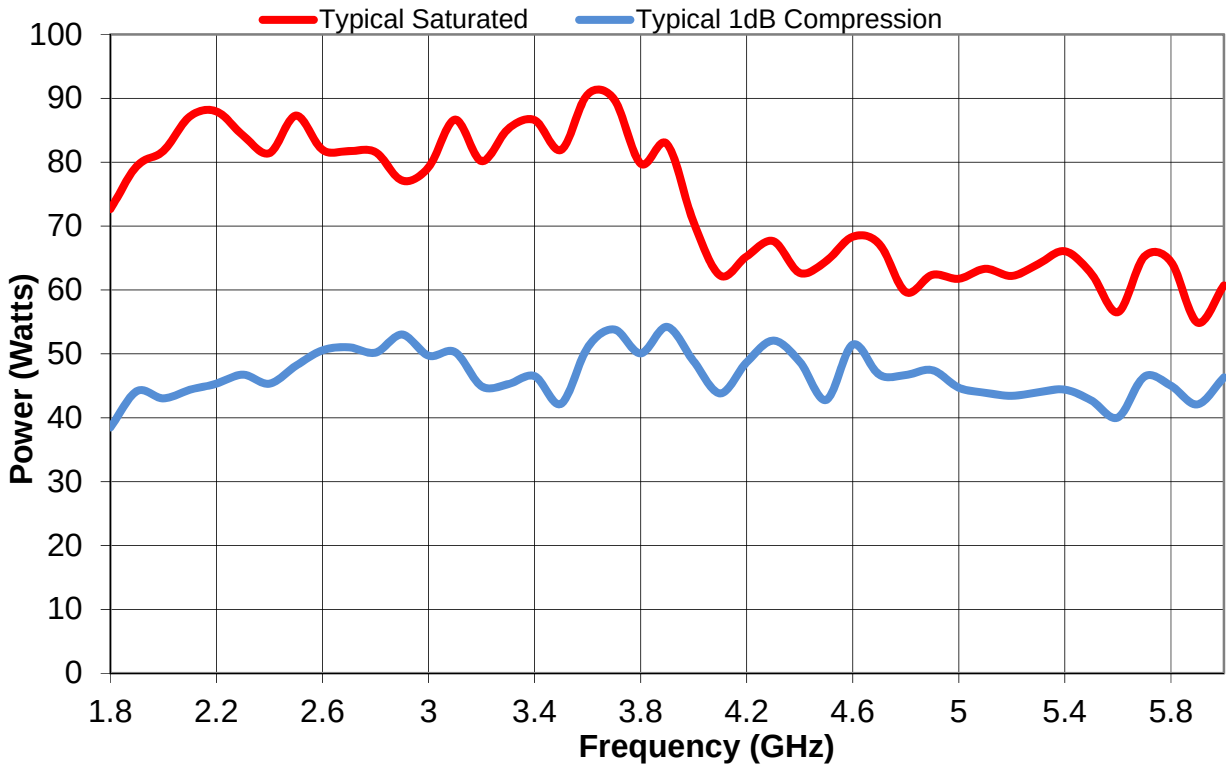
MILMEGA
RF/Microwave Amplifiers

MILMEGA 'AS' Series Solid State Amplifier Range

Model: AS1860-30
Broadband Power Amplifier

- Upgradeable to higher power
- Mismatch tolerant and unconditionally stable
- High reliability GaN transistor technology
- Calibrated Dual Directional Coupler fitted as standard
- Ethernet, USB and RS232 **or** GPIB and RS232 included in price
- Unique 5 year parts and labour warranty.

The AS1860 series of solid state power amplifiers follows the MILMEGA tradition for compact, upgradeable microwave power amplifier solutions with field proven reliability.
Developed to cover the frequency band 1.8 - 6GHz this GaN based amplifier produces high power with excellent linearity and low harmonics.
The unit is 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, and 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. Front panel indicators are provided to indicate over-temperature and RF interlock condition.



Amplifier Specification

Frequency Range	1.8 to 6.0GHz
Psat (min)	39W
P1dB (min)	30W
Gain (min)	41 dB
Gain Variation (max)	+/- 3.0 dB
Harmonics at P1dB	-20 dBc
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
Spurious	-70 dBc (min) -80 dBc (typical)
Noise figure	8.0 dB
Safety interlock	Via rear panel mounted BR2-female
Supply Voltage – 1 Phase	85 to 264 VAC
Supply Frequency	47 to 60 Hz
Supply Power	357 VA (typical full power)
RF Input	Type N female
RF Output	Type N female
Dimension	19 inch, 3U 527mm Deep
Weight	22 kg

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

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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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