

CBA100M-400

10 KHz to 100 MHz 400 Watt Class A Solid State Amplifier



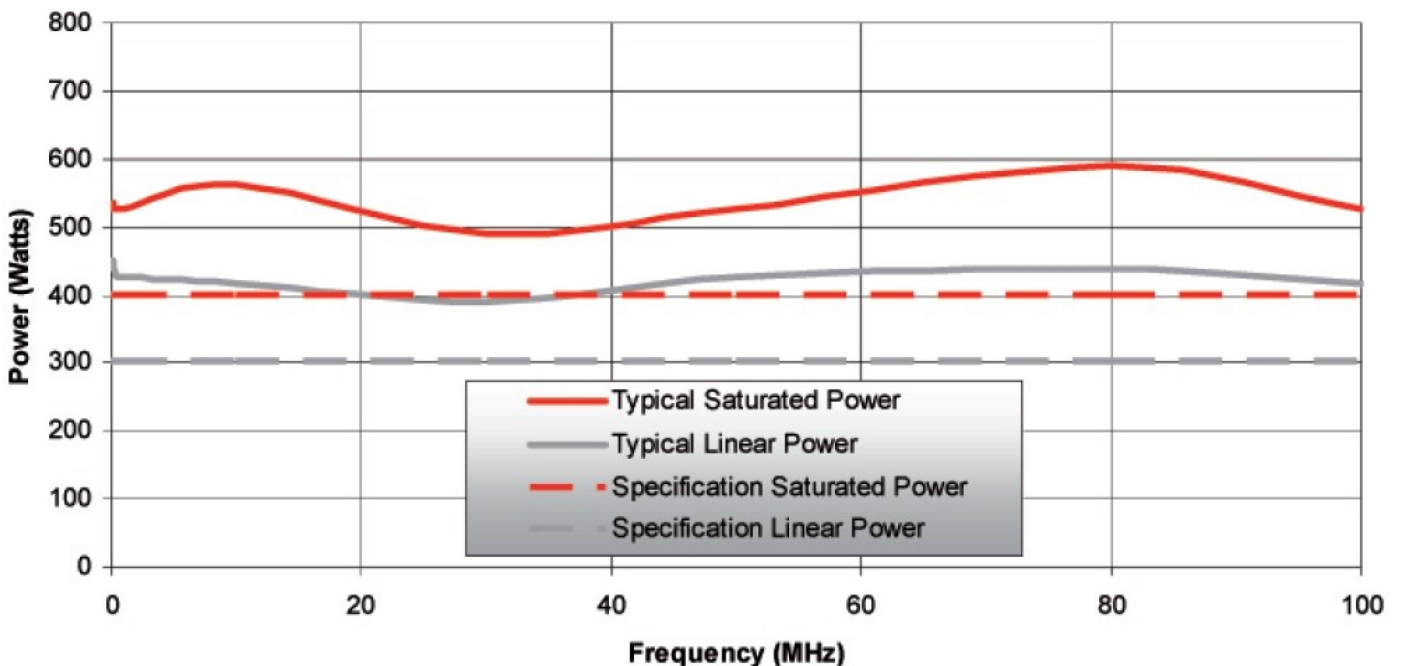
This low frequency amplifier can be used in conjunction with other amplifiers from the Teseq range to cover the entire frequency range from 10 kHz to 40 GHz with convenient frequency break points allowing you to optimise the power level in each range.

The Class A design ensures a high reliability, low distortion 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.

MAIN FEATURES

- **Class A Operation**
- **Ideal for Low Frequency Tests Using Strip Line Devices**
- **Mismatch Tolerant & Unconditionally Stable**
- **USB, Ethernet and GPIB interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL)**
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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 operation.



Technical Specifications

Frequency Range	0.01 - 100 MHz
Rated Output Power	400W (min) - 450W (typ)
Power Output @ 1dB Compression	300W (min) - 320W (typ)
Input for Rated Output	1 dBm
Small Signal Gain	57 dB
Gain Variation (max) ±	+/- 2.0 dB
Harmonics @ P1dB (min)	-20 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	75 dB
Noise Figure	12 dB
Modulation Formats	AM, FM, PM, OFDM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase (no foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	60 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	2 KVA
Supply Voltage	90 to 264 VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type N Female
Safety Interlock	Via rear panel mounted BNC-female
Dimensions (No Cabinet) (W x H x D)	48.3 x 40 x 44 cm (19 x 15.8 x 17.3 in) (9U)
Weight (No Cabinet)	33 Kg (72.7 lb)
Cooling System	Air Cooled, Self-contained
Com. Interface	GPIB, Ethernet & USB

Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M
Shock and Vibration	Normal Truck Transport

Regulatory Compliance (CE)

EMC	EN 61326-1
Safety	UL 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	No Licence Required

Available Configurations

Product	Configuration	Item #
CBA100M-400-002	Rear Panel RF Connectors	3-342411