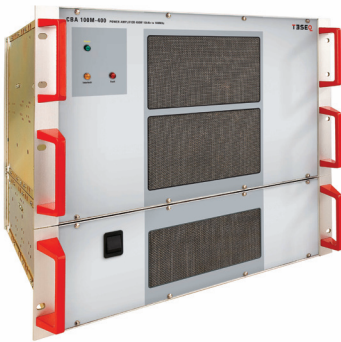




CBA 100M-400 **10 kHz TO 100 MHz 400 WATT** **CLASS A BROADBAND AMPLIFIER**

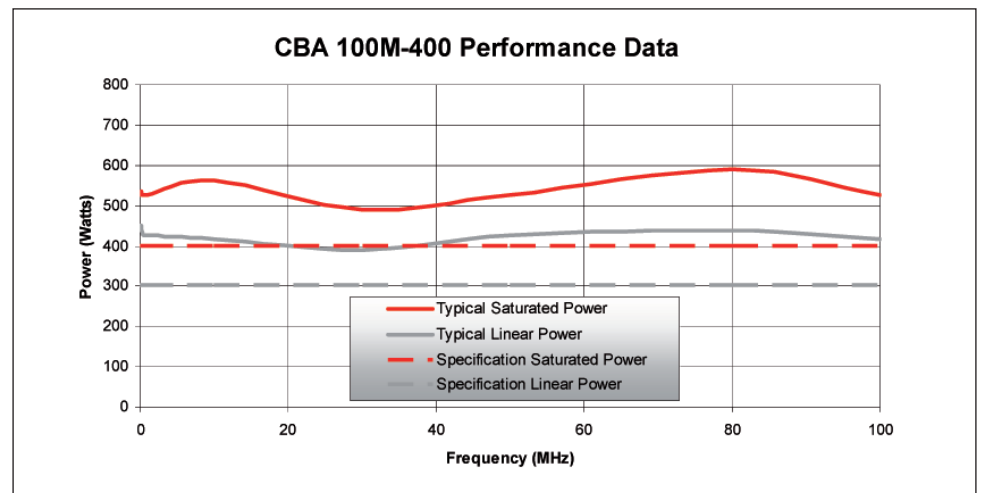


- **Class A linear and low distortion design**
- **Ideal for low frequency tests using various strip line devices**
- **Mismatch tolerant and unconditionally stable**
- **Rugged design for EMC testing**
- **Three year parts and labour warranty**

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.

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.



CBA 100M-400

10 kHz TO 100 MHz 400 WATT

CLASS A BROADBAND AMPLIFIER

Key RF Parameters

| | |
|---------------------------------------|-------------------------------|
| Frequency range (instantaneous) | 0.01 to 100 MHz |
| Rated output power | 400 W minimum (500 W typical) |
| Output power at 1 dB gain compression | 300 W minimum (400 W typical) |
| Harmonics at 250 W output power | Better than -20 dBc |
| Harmonics at 300 W output power | Better than -18 dBc |
| Gain | 57 dB |
| Gain variation with frequency | ±2 dB |
| Maximum input power (no damage) | +10 dBm |

Impedance / VSWR

| | |
|------------------------------------|---------------|
| Output VSWR tolerance ¹ | Infinity:1 |
| Stability | Unconditional |
| Output impedance | 50 Ohms |
| Input VSWR | 2:1 |

Additional RF Data

| | |
|--|---------------|
| Third order intercept point ² | 67 dBm |
| RF connector style | Type N female |

Electrical and Interfaces

| | |
|-------------------------------|--------------------------------------|
| USB interface | Optional |
| Safety interlock | BNC female, s/c to mute, 100 mA max. |
| Supply voltage (single phase) | 184 to 264 Vac |
| Supply frequency range | 47 to 63 Hz |
| Supply power | <2 KVA |

Physical / Environmental

| | |
|-----------------------------|-------------------------------|
| Case dimensions | 19 inch, 9U rack, 570 mm deep |
| Weight | 33 kg |
| Operating temperature range | 0 to 40°C |

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Notes:

1. Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.
2. The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.