

CBA100M-3000

10 KHz to 100 MHz 3000 Watt Class A Solid State Amplifier



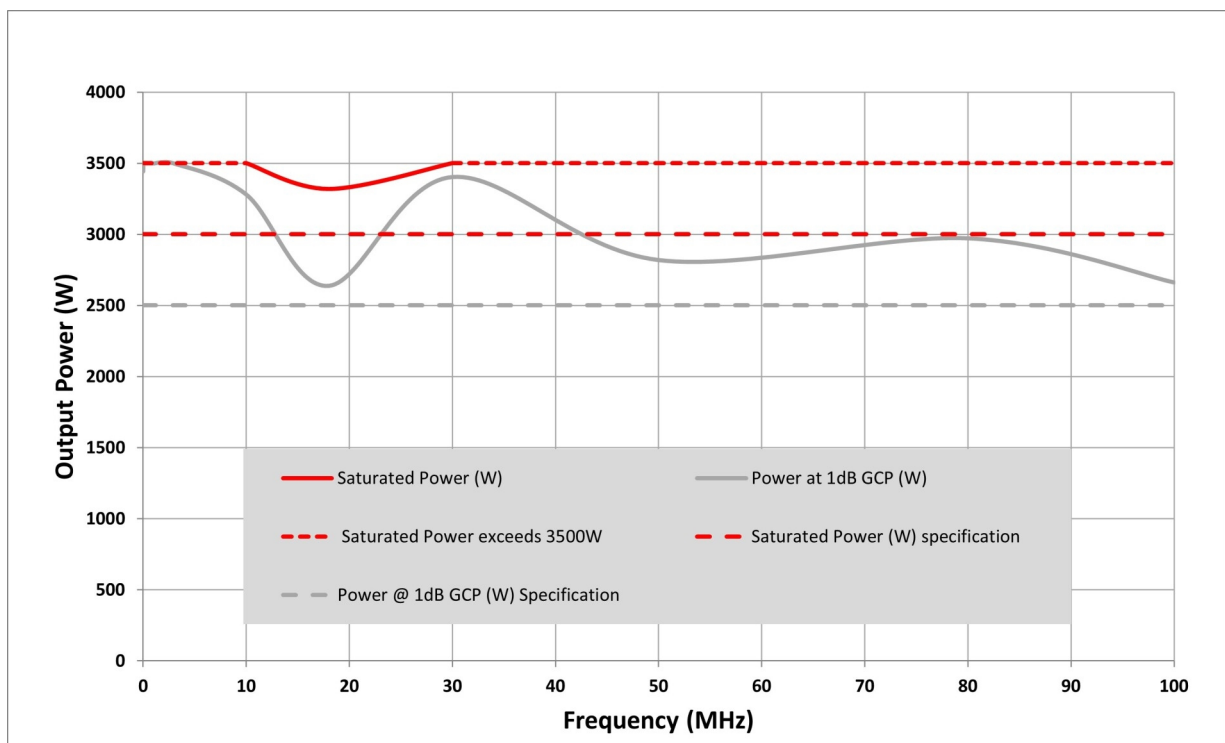
This low frequency amplifier can be used in conjunction with other amplifiers from the Teseq range to cover the entire frequency range from 10 kHz to 40 GHz with convenient frequency break points allowing you to optimise the power level in each range.

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 Tests Using Strip Line Devices**
- **Mismatch Tolerant & Unconditionally Stable**
- **USB, Ethernet and GPIB interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL)**

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	3000W (min) - 3300W (typ)
Power Output @ 1dB Compression	1000W (min) - 1200W (typ)
Input for Rated Output	1 dBm
Small Signal Gain	64 dB
Gain Variation (max) ±	+/- 3.0 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	70 dB
Noise Figure	12 dB
Modulation Formats	AM, FM, PM, OFDM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	68 dBA
Supply Frequency	47 to 63 (Hz)
Three Phase 5 Wire WYE	See, "Available Variants" chart below VAC
Three Phase 4 Wire Delta	See, "Available Variants" chart below VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-7/16 Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
Dimensions (With Cabinet) (W x H x D)	51.0 x 151 x 80 cm (20.1 x 59.5 x 31.5 in) (34U)
Weight (With Cabinet)	291 Kg (642 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-3000-004	Rear Panel RF Connectors, 3 Phase, 5 Wire (3P+N+E), 380 to 415 VAC Line to Line	3-342569
CBA100M-3000-006	Rear Panel RF Connectors, 3 Phase, 4 Wire (3P+E), 208 to 240 VAC Line to Line	3-342560