



T&C
Power Conversion

03-380 RF POWER SOURCE

T&C POWER CONVERSION

Up to 300 Watts RF Power From 380 kHz For Laboratory and Industrial Application.

FEATURING:

- 380 kHz up to 300 Watts
- Low distortion level ≤ -45 dBc
- Measuring forward, reflected and load power and power VSWR simultaneously
- Back Panel Control & Monitoring of all functions.
- Data acquisition: Status Monitoring & Power Measurement at Analog & Digital Ports
- AGC Power Leveling: Gain Control to within $\pm 2W$
- Pulse operation from $2\mu s$ and up in BURST mode
- Internal or External signal source (amplifier operation)



*Power Source
Front Panel view*

RF Power Source Model 03-380 is a dynamic source of RF power for ultrasonic, laser modulation, RFI/EMI, plasma generation, general laboratory and industrial applications.

Featuring leading edge solid state design for all generator stages and a built-in crystal oscillator signal source, it provides everything for a complete and reliable, finely controlled RF power delivery system. It reflects the T&C ongoing commitment to provide RF power products of the highest quality, incorporating the current requirements for complete remote control and data acquisition features.

OPERATION

The model 03-380 produces 300W of RF Power at a frequency of 380 kHz, with low harmonic distortion. Power readings are calibrated into a 50 Ohm Load and they are accurate when unit operates into matched load. Outside of matched condition, the model 03-380 power measurement system reading can be used to estimate VSWR level. High level VSWR is also monitored for protection of output stage and is set for 80W limit. When used as an amplifier, the 03-380 is compatible with most signal and function generators,

computer synthesizer cards and it reproduces all power requests within its control loop bandwidth conditions.

The Forced-air cooling system and the internal power supply are designed to permit operation over a wide range of temperature and global AC line conditions. The 03-380 is built to withstand a +3 dBm input signal. The unit amplifies the inputs of AM and pulse modulations.

OUTPUT PROTECTION

The Model 03-380 is protected by its internal monitoring system for 315 Watts of total Forward Power and 80W of Reflected Power. This will protect the RF power stage from extreme mismatch at the Output.

DIAGNOSTICS

RF delivery system diagnostics are available to check power operation. This diagnostic routine is started by the push button located on the back panel. The Green/Red LED signals conditions.

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