
High Frequency Analog R F Generators

Comdel's CPS Series... The Industry Leader in Reliability Now Offers Ultimate Stability



✚ Solid Engineering Improves Process Results

Since the introduction of the first CPS generator 15 years ago, our competition has been trying to equal the success of this power supply's design. With the addition of the IGS System option, our design remains unchallenged as the leader in reliability, economy and stability.

✚ Reduce Plasma Instabilities and Improve Yields

Comdel's innovative Instantaneous Gain Stable RF Power Generating System is a product option that improves process repeatability by reducing Plasma/Generator interaction and modulated power envelope. In addition:

- Any cable length to plasma load is stable.
- It enhances matching network performance by reducing servo dead bands, improving repeatability of tuning and extending network life.
- The effects of generator-to-generator gain differences are dramatically reduced.

✚ Quality Components Assure Reliability

Comdel engineers design generators with some of the highest "Mean Time Between Failure" (MTBF) ratings in the industry. To achieve this distinction, top quality parts are used throughout the CPS design and typically are run at half their rated tolerances. Output transistors are sourced adhering to tight specifications - then tested and bet-matched to assure reliability. We invest in these quality parts up front to assure extra resources are not needed in the field. For maximum performance at an economical cost, the parts count is kept to a minimum in the CPS series of generators. This streamlined design gets the result you want: A high MTBF at a competitive cost.

Key Benefits
Reduces plasma instabilities
Enhances matching network performance
Reduces generator to generator RF gain differences
All solid state for long life and low maintenance
Reliable design with millions of trouble-free hours in plasma systems worldwide
Class "C" linear design assures stability and reliability
Control circuitry ensures consistency during high VSWR conditions
Protective circuitry prevents over-voltage and over-current failures
Broadband, low "Q" circuits inhibit self-resonant oscillations and "squeezing"
Output transistors are beta-matched to assure reliability

Options
External Freq. Control (Input/output frequency can be varied +/- 10% of the center frequency from a TTL clock input, 50-Ohm source)
Other AC input line voltages and frequencies available
Master/Slave operation
Overtemperature warning output before shutdown

GENERAL SPECIFICATIONS:

Frequency: Single frequency between 2 and 80MHz

Power control: 0-10VDC input for 0 to full rated output

Forward/Reflected Power Monitoring: 0-10 VDC for 0 to full rated output

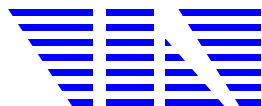
Spurious Radiation: Well below FCC part 18 requirements

Power Control Linearity: Better than 2% of setting at power levels above 10% of rated power.

Output Connector: N-type

List of Models Available

Model	Power Output	Cooling	Control I/O Connector	Size (Weight)	Input Power
CPS 500	500 W	Forced Air	15-pin D-type	5.25"H x 19"W x 16"D (36 lbs)	115/208/220 VAC; 1-Ph 50/60Hz / 1KVA max
CPS 1001	1000 W	Water (1.5gpm)	15-pin D-type	5.25"H x 19"W x 16"D (75 lbs)	208VAC; 3-Ph 50/60Hz / 6A typ (440V/1-Ph available)



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