

COMDEL

Comdel, Inc.
11 Kondelin Road
Gloucester, MA 01930

p: 978.282.0620
f: 978.282.4980

www.comdel.com



FOR SALES AND SERVICE PLEASE CALL:

PTB SALES

T :: 626.334.0500
service@ptbsales.com
www.ptbsales.com

DATE SERVICED: _____

VIEW OUR INVENTORY

CPS Series High Frequency Power Supplies

**Solid, Reliable Engineering that Improves
Process Results**



Performance:

With millions of hours in the field, Comdel's CPS series generators have proven their ability to withstand erratic loads. Patented S-Technology provides optimized amplifier performance for ultra-stable output by reducing power gain changes due to plasma impedance fluctuations. S-Technology helps eliminate headaches from transmission line length, mismatch conditions and process reliability issues.

Applications:

The CPS series is designed to meet the performance demand in RF-driven plasma systems for semiconductor processing. Applications include etch, RIE, parallel plate, ICP, RF sputtering, CVD and PVD, as well as induction and dielectric heating processes in industrial systems.

Features:

- Solid state for long life and low maintenance
- Class "C" linear design assures stability
- ETL Marked and SEMI F47 compliant
- Control circuitry ensures consistency during high VSWR conditions
- Output transistors are beta-matched to assure reliability
- Broadband, low "Q" circuits inhibit "squeeging" and self-resonant oscillations

Options:

- Wide range of AC input line voltages available
- Series, parallel or IBM interlock configurations
- External frequency control: input frequency can be varied +/- 10% of the center frequency from a TTL level, 50-Ohm source
- Custom configured interface



Specifications:

- | | |
|---|--|
| • Frequency: | Single frequency between 2 and 80 MHz |
| • Bandwidth on external frequency option: | +/- 10% |
| • Forward power monitoring: | 0-10 VDC for 0 to maximum-rated output |
| • Reflected power monitoring: | 1-10 VDC for 0 to 20% of maximum-rated output |
| • Reflected power limits: | Factory set at 20% of maximum output |
| • Spurious radiation: | Exceeds FCC Part 18 requirements |
| • Power control linearity: | Better than 3% of setting at power levels above 10% of rated power |
| • Standard available output connector: | Type N or C |

CPS 500:

- | | |
|--------------------------|---|
| • Output power: | 500W |
| • Control I/O connector: | 15-pin subminiature D type (female) |
| • Input line voltage: | 115/200/208/220VAC; single phase; 50/60 Hz; 1KVA max. |
| • Cooling: | Forced air |
| • Size: | 5.25"H x 19"W x 16"D (13.3cm x 48.3cm x 40.6cm) |
| • Weight: | 36 lbs. (16.3 kg) |

CPS 1001:

- | | |
|--------------------------|---|
| • Output power: | 1000W |
| • Control I/O connector: | 15-pin subminiature D type (female) |
| • Input line voltage: | 208VAC; three phase; 50/60 Hz; 6A max. |
| • Cooling: | Water: 1.5 GPM (5.7 liters), 35° C max. |
| • Water connections: | 1/4" NPT female, inlet & outlet |
| • Size: | 5.25"H x 19"W x 16"D (13.3cm x 48.3cm x 40.6cm) |
| • Weight: | 75 lbs. (34 kg) |