COMDEL

Comdel, Inc.
11 Kondelin Road
Gloucester, MA 01930

p: 978.282.0620
f: 978.282.4980

www.comdel.com

CX Series High Frequency Power Supplies

Proven Reliability in Plasma Vacuum Systems Worldwide

Performance:

The CX series power supplies start at power ranges from 600 to 3500 Watts with fixed frequencies from 2 to 30 MHz, and frequency agile capability up to 10% bandwidth. The solid-state design provides low cost of ownership with high reliability.

Applications:

The CX 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.

CX High Power Supplies:

The CX series extends to high-power ranges of 5000 and 10,000 Watts.

Features:

- **Patented S-Technology provides ultra-stable output. This stabilizing technology optimizes amplifier performance, reducing power-gain changes caused by plasma impedance fluctuations.**
- **ETL Marked for product safety and SEMI F47 compliant**
- **Local control via encoder and softkey inputs**
- **Standard RS-232 and analog/digital control**
- **Active front panel with full controls and programmable microprocessor**
- **Control circuitry ensures consistency during high VSWR conditions**

Options:

- **Wide range of AC input line voltages available**
- **External frequency control**
- **Master/Slave operation**
- **DeviceNet**

General Specifications:

- Power control: 0-10 VDC input for 0 to maximum-rated output
- Power control linearity: ≤ 2% of setting at power levels above 10% of rated power
- Frequency: Any fixed frequency from 2 to 30 MHz (optional frequency agility +/- 10% of center frequency)
- Frequency stability: 13.56 MHz +/- 0.005%

Electrical Specifications:

Model	Power Output	Harmonic Distortion	Input Line Voltage / Line Current	Control I/O Connector	Std. Output Connector
CX 600	600W	Less than -30dBc	190-225VAC; single phase; 50/60 Hz / 6A typical	25-pin (optional 15) subminiature D type	N or C
CX 600/H	600W	Less than -35dBc	190-225VAC; single phase; 50/60 Hz / 6A typical	15-pin subminiature D type	N or C
CX 1250	1250W	Less than -30dBc	190-225VAC; three phase; 50/60 Hz / 7A typical	15-pin subminiature D type	N or C
CX 1250A	1250W	Less than -30dBc	190-225VAC; single phase; 50/60 Hz / 15A typical	25-pin subminiature D type	N or C
CX 2500	2500W	Less than -30dBc	190-225VAC; three phase; 50/60 Hz / 15A typical	25-pin subminiature D type	HN or N
CX 3500	3500W	Less than -30dBc	190-225VAC; three phase; 50/60 Hz / 20A typical	25-pin subminiature D type	HN or N

Mechanical Specifications/Certification:

Model	Size	Weight	Cooling	Certification
CX 600	5.25"H x 19"W x 16"D (13.3cm x 48.3cm x 40.6cm)	35 lbs. (16 kg)	Forced air	ETL Marked, Semi F47
CX 600/H	7"H x 9.5"W x 19"D (17.8cm x 24cm x 48.3cm)	35 lbs. (16 kg)	Forced air	
CX 1250	5.25"H x 19"W x 16"D (13.3cm x 48.3cm x 40.6cm)	75 lbs. (34 kg)	Water: 1 GPM (3.8 liters)	ETL Marked, Semi F47
CX 1250A	7"H x 19"W x 19"D (17.8cm x 48.3cm x 48.3cm)	75 lbs. (34 kg)	Forced air	
CX 2500	7"H x 19"W x 21.5"D (17.8cm x 48.3cm x 54.6cm)	132 lbs. (60 kg)	Water: 1.5 GPM (5.7 liters)	ETL Marked, Semi F47
CX 3500	10.5"H x 19"W x 24"D (26.7cm x 48.3cm x 61cm)	165 lbs. (75 kg)	Water: 2 GPM (7.6 liters)	