

# CLB Series Low Frequency RF Power Supply

Stable, Reliable, Low Frequency Power



## Performance:

The CLB Series provides 2500 to 12,000 Watts of power with standard fixed frequencies from 20kHz to 2MHz. The solid-state design provides precise and repeatable power control, ultra-stable output and low cost of ownership. The design of the CLB is based on Comdel's proven RF amplifier technology.

## Applications:

The CLB 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, and solar photovoltaic applications.

## Features:

- Standard fixed frequencies from 20kHz to 2MHz
- Standard power ranges from 2500 to 12,000 Watts
- Phase lock tuning and software algorithm
- Designed to meet IEC and SEMI F47 directives
- Forward or Delivered power mode regulation

## Options:

- High accuracy, low output control: +/- 1% of setpoint from 10-100% rated power
- Internal fixed match
- Master/Slave operation
- DeviceNet

## General Specifications:

- Frequency: Any fixed frequency from 20 kHz to 2 MHz, standard
- Frequency stability: +/- 0.005%
- Line frequency: 50/60 Hz
- Analog power command: 0-10 VDC for 0 to maximum output
- Power accuracy:  $\leq 2\%$
- Power linearity:  $\leq 2\%$  of setting at power levels above 10% of rated power
- Power repeatability: +/- 1% of setpoint into a 50-Ohm load
- Control I/O connector: Standard: 25-pin subminiature D type (female)  
Optional: 15-pin subminiature D type (female)
- Harmonic distortion: Less than -40 dBc
- Reflected power limit: 20% of full scale typical

## Facility Specifications:

Model	Power Output	Size	Weight	Line Voltage / Line Current	Cooling	Std. Output Connectors
<b>CLB3000</b>	3000W	5"H x 8"W x 16"D (12.7cm x 20.3cm x 40.6cm)	35 lbs. (16 kg)	208/230/400/440/480VAC; 3Ø 12A/11A/6A/5A/5A typical	Water: 2 GPM (7.6 liters)	N, C, HN, LC or 7/16
<b>CLB5000</b>	5000W	7"H x 19"W x 22"D (17.8cm x 48.3cm x 56cm)	95 lbs. (43 kg)	208/230/400/440/480VAC; 3Ø 24A/22A/12A/10A/10A typical	Water: 3 GPM (11.4 liters)	N, C, HN, LC or 7/16
<b>CLB6000</b>	6000W	7"H x 19"W x 22"D (17.8cm x 48.3cm x 56cm)	95 lbs. (43 kg)	208/230/400/440/480VAC; 3Ø 24A/22A/12A/10A/10A typical	Water: 3 GPM (11.4 liters)	N, C, HN, LC or 7/16
<b>CLB12K</b>	12,000W	10"H x 16"W x 32"D (25.4cm x 40.6cm x 81.2cm)	145 lbs. (65.9 kg)	208/230/400/440/480VAC; 3Ø 48A/44A/24A/20A/20A typical	Water: 5 GPM (18.9 liters)	LC or 7/16