

CXV600S

Virtual-Quad

RF Power Supply

Custom Solutions from Comdel



Performance:

The CXV600S Virtual-Quad series RF generator is the ideal solution for applications requiring RF power to be delivered into one of four different locations. With four complete user interfaces, the Virtual-Quad appears as four separate RF generators to the system controller. This allows for significant cost savings for applications requiring multiple, non-simultaneous RF generation. Equipment space requirements are also greatly reduced, as the Virtual-Quad requires only 5.25"H x 19"W of rack area. The Virtual-Quad provides robust and very stable RF power from Comdel's patented S Technology.

Applications:

The Virtual-Quad is designed to meet the performance demand in RF-driven plasma systems for semiconductor processing requiring high frequency RF power, into one of (up to) four locations. Applications include etch, RIE, parallel plate, ICP, RF sputtering, CVD, PVD, and solar photovoltaic applications.

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
- **Local control** via encoder and softkey inputs
- **Standard 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**
- **RS-232 control**

General Specifications:

- Frequency: Any fixed frequency from 2 to 27 MHz
- Frequency stability: +/- 0.005%
- 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
- Power Input: 120 / 208 / 230 VAC
- Harmonic distortion: Less than -30 dBc
- Reflected power limit: 20% of full scale typical
- System Interface: Four complete, full function 15 pin remote analog interfaces

Model	Size	Weight	Cooling	Certification
CXV 600S	5.25"H x 19"W x 16"D (13.3cm x 48.3cm x 40.6cm)	35 lbs. (16 kg)	Air-cooled up to 300 Watts or water-cooled up to 600 Watts	ETL Marked