

CXH Series High Power / High Frequency Power Supplies



Performance:

The CXH series of hybrid, high frequency power supplies is designed to operate at a fixed frequency over the range of 2 to 40 MHz. The rugged amplifier design is well-suited to demanding industrial applications where stability and reliability in the presence of erratic loads is required. The solid-state driver section features microprocessor control for precise power control and diagnostic monitoring.

Applications:

The CXH series of high power supplies provides stable, reliable RF power for industrial heating applications including drying, plastic welding, silicon crystal growing and flat panel.

Features:

- **Standard power ranges: 15kW, 25kW and 50kW**
- **Rugged, reliable design for years of trouble-free operation**
- **Simplified operation through microprocessor-controlled user interface**
- **CX series solid-state driver requires no tuning or adjustments**
- **Water cooling increases tube life by reducing thermal stress in high VSWR mismatched loads**
- **RS-232 package standard**
- **ETL Mark on CXH 25K**

Options:

- **Phase coherent bias package**
- **External control and monitoring package**
- **Wide range of AC input line voltages available**
- **DeviceNet**

Specifications:

- Frequency: Single frequency between 2 and 40 MHz
- Power control: 0-10VDC for 0-100% rated power
- Power readback (forward & reflected): 0-5VDC for 0-100% rated power
- Control linearity: $\leq 3\%$ above 500W output
- Control I/O connector: 25-pin subminiature D type (female)
- Line regulation: $\leq 1\%$ for +/- 5% line
- Spurious radiation: Complies with FCC Part 18
- Output ripple: $\leq 1\%$

Electrical/Mechanical Specifications:

	CXH 15K	CXH 25K	CXH 50K
Output power:	15kW	25kW	50kW
Line input voltage:	208/480VAC; three phase	480VAC; three phase	480VAC; three phase
Input current:	90A/40A	60A	125A
Power input:	25KVA max.	40KVA max.	85KVA max.
Cooling:	Water: 3 GPM (11.4 liters)	Water: 4 GPM (15 liters)	Water: 5 GPM (19 liters)
Size (High):	68" (172.7cm)	76" (193cm)	67" (170.2cm)
Size (Deep):	36" (91.4cm)	36" (91.4cm)	36" (91.4cm)
Size (Wide):	19" Rack (48.3cm)	24" Rack (61cm)	52" Rack (132cm)
Weight:	900 lbs. (408 kg)	1400 lbs. (635 kg)	1600 lbs. (725.7 kg)

Call factory regarding higher power configurations.