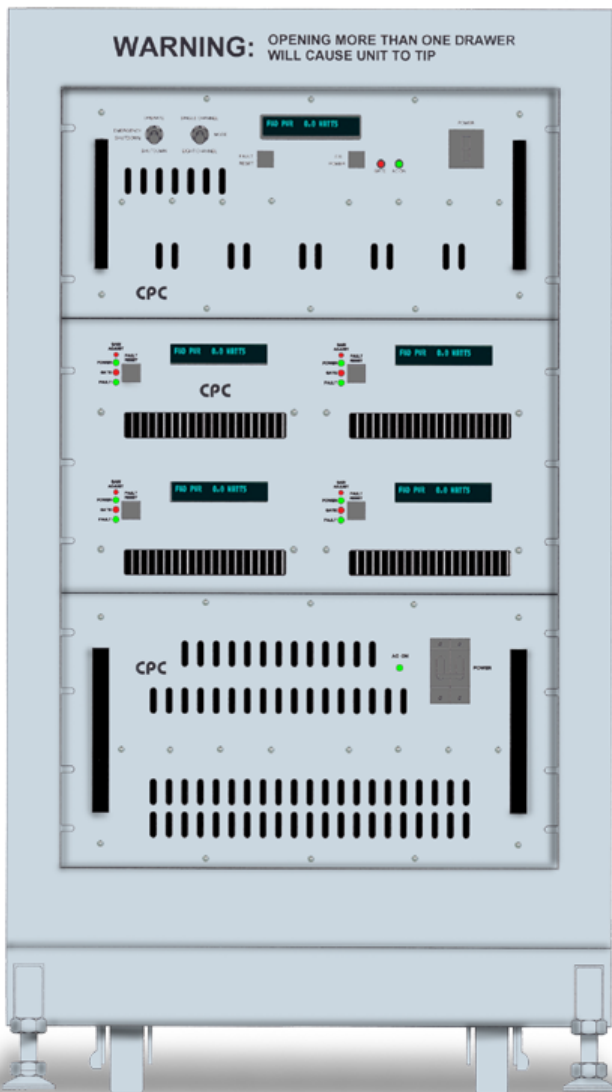




The world's leading supplier of broadband power amplifiers.

Model #: 7T500M-4C2C Frequency Range: 40-305 MHz

Specifications per channel **



Operating frequency	40-305 MHz
Pulse power into 50 ohms	500 W (min.) / channel
CW power	50 W / channel
Gain (at rated power)	57 dB (nominal)
Gain flatness	± 3 dB (rated Pin-15dB)
Gain linearity (5- 500 W)	±1.5 dB
Phase linearity (5-500W)	≤ 15° max excursion
Phase error overpulse	≤ 5° over ms rectangular pulse
Input/ Output impedance	50 ohms nominal (by design)
Input VSWR	≤ 2:1
Noise figure	12 dB typical
Output noise (blanked)	≤ 20dB over thermal
Blanking delay	≤ 2.0 μs
RF Pulse width	20 msec max.
Duty cycle	≤10% (max.)

* -01 Option is a 4-way splitter/combiner switch matrix to allow the system to be operated as a single channel, 2kW, amplifier or 4,500W channels.

Communication Power Corporation
 80 Davids Drive, Suite 3
 Hauppauge, New York 11788
 Phone: 631. 434. 7306 Fax: 631. 434. 7026
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 Web Site: www.CPCAMPS.COM

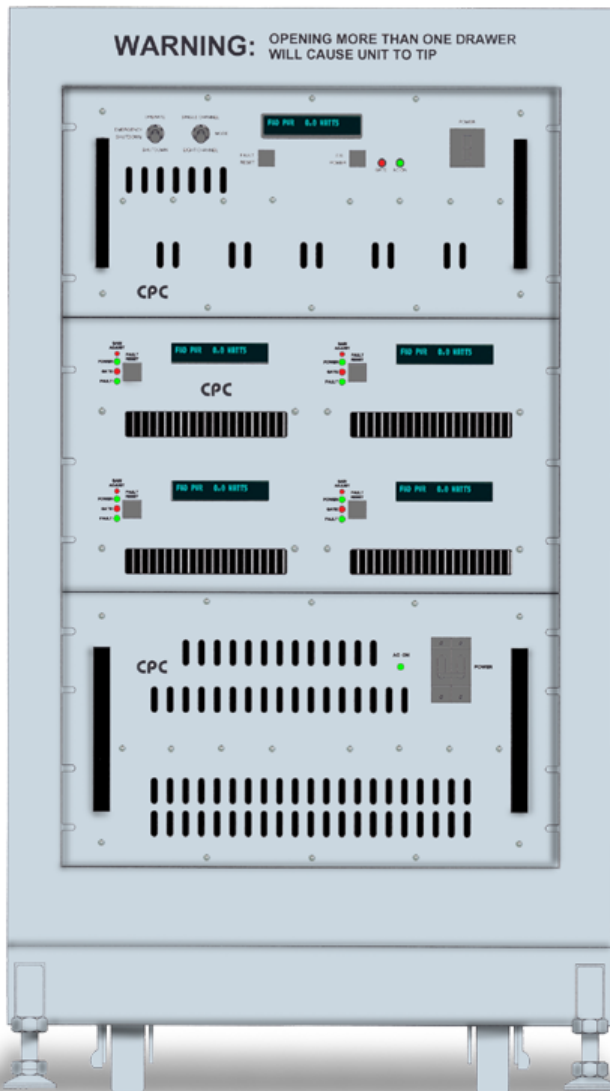


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System Features



* CPC reserves the right to change specifications without notice.

Protection functions:

- Maximum forward peak power
- Maximum average power
- Maximum output VSWR
- Internal Over- temperature
- Internal power supply monitoring

Controls, front panel:

- AC power on/off (Circuit breaker) (also on 01 option)
- Forward/ Reflected RF Power
- Fault reset
- Low power mode
- 4 Ch/ 1 Ch select (-01 option only)
- 4 Ch/ 2 Ch mode (-02 option only)

Front panel indicators:

- | | |
|------------------------------------|---------------------------|
| AC power on | Power supply fault status |
| Standby mode | VSWR fault |
| Blanking (Gate) | Thermal fault |
| RF overdrive fault | Energy fault |
| 4 Ch / 1 Ch mode (-01 option only) | |
| 4 Ch / 2 Ch mode (-02 option only) | |

Interface functions:

- | | |
|-----------------------------------|------------------|
| (C= Control Input F= Flag Output) | |
| CW mode (C/F) | Standby (C/F) |
| Power supply (F) | RF overdrive (F) |
| Thermal (F) | VSWR (F) |
| Energy (F) | |

User Connections, rear panel:

- AC mains, Receptacles, EMI filtered
- RF input (X4): BNC (F)
- RF output (X4): Type N (F)
- System Interface: 25 pin DSUB (F)
- Protective ground: threaded bolts

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Model #: 7T500M-4C2C Frequency Range: 40-305 MHz

Environmental



Cooling Internal forced air, front to rear

Operating temperature +10 to 40°C

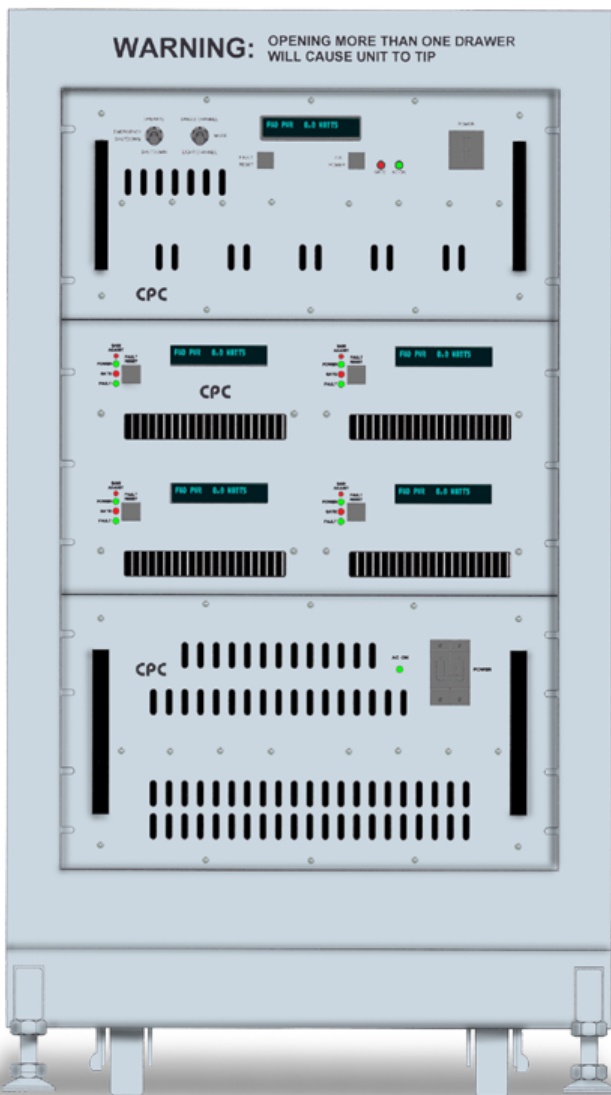
AC line voltage 200 -240 VAC, 1 phase, ±10%, 47-63 Hz

Chassis size (HWD, inches)
Rack mountable

Net weight 400 lbs. (approx.) (181.4 kg)

Compliance CE, UL 2601 upon request

• Rack mounting optional



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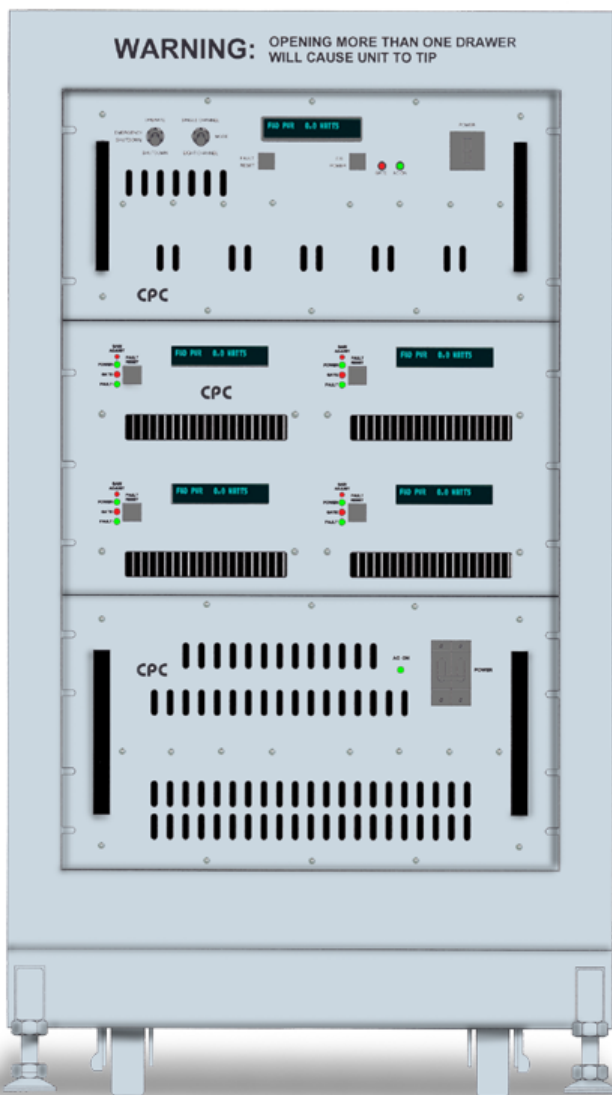
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The world's leading supplier of broadband power amplifiers.

Model #: 7T500M-4C2C Frequency Range: 40-305 MHz

Specifications - Combined System (Option -02, 7T500-2C)



Operating frequency	40-305 MHz
Pulse power into 50 ohms	1000 W (min.)
CW power	60 W
Gain (at rated power)	61 dB nominal
Gain flatness	± 3 dB (rated Pin-15dB)
Gain linearity (10-1000 W)	±1.5 dB
Phase linearity (10-1000W)	≤ 15° max excursion
Phase error over pulse	≤ 5° over ms rectangular pulse
Input/ Output impedance	50 ohms nominal (by design)
Input VSWR	≤ 2:1
Noise figure	12 dB typical
Output noise (blanked)	≤ 20dB over thermal
Blanking delay	≤ 2.0 μs
RF Pulse width	20 msec max.
Duty cycle	≤10% (max.)

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* -02 Option is a 2ch/4ch output option. 2 channels at 1000W per channel and 4 channels at 500W / channel.

** CPC reserves the right to change specifications and or discontinue this product without notice.