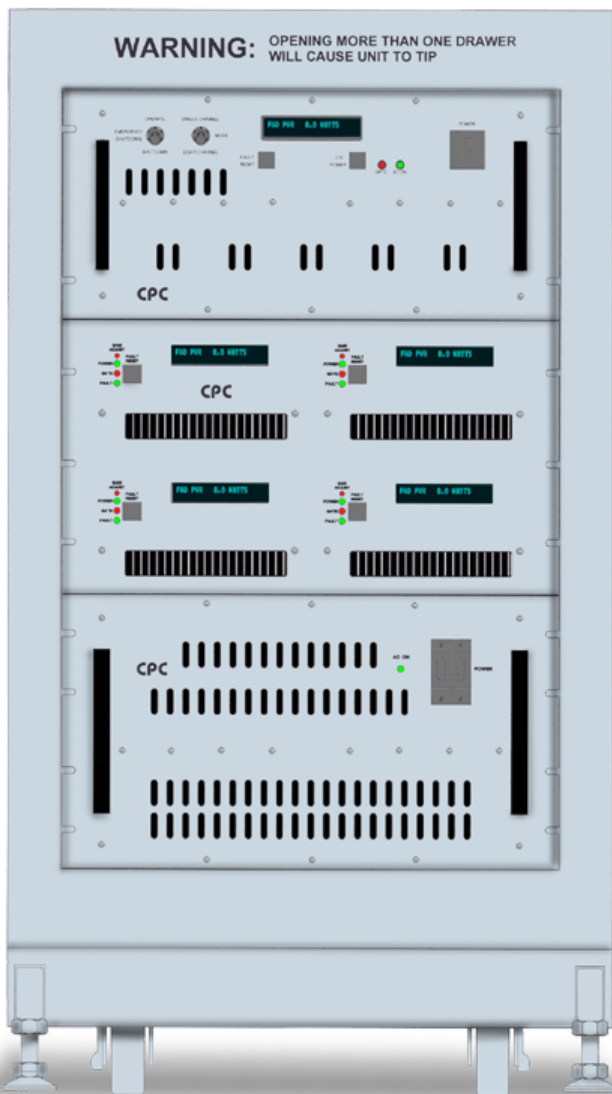




The world's leading supplier of broadband power amplifiers.

Model #: I6T500M-4C Frequency Range: 650-710 MHz

Specifications per channel **



Operating frequency	650-710 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.

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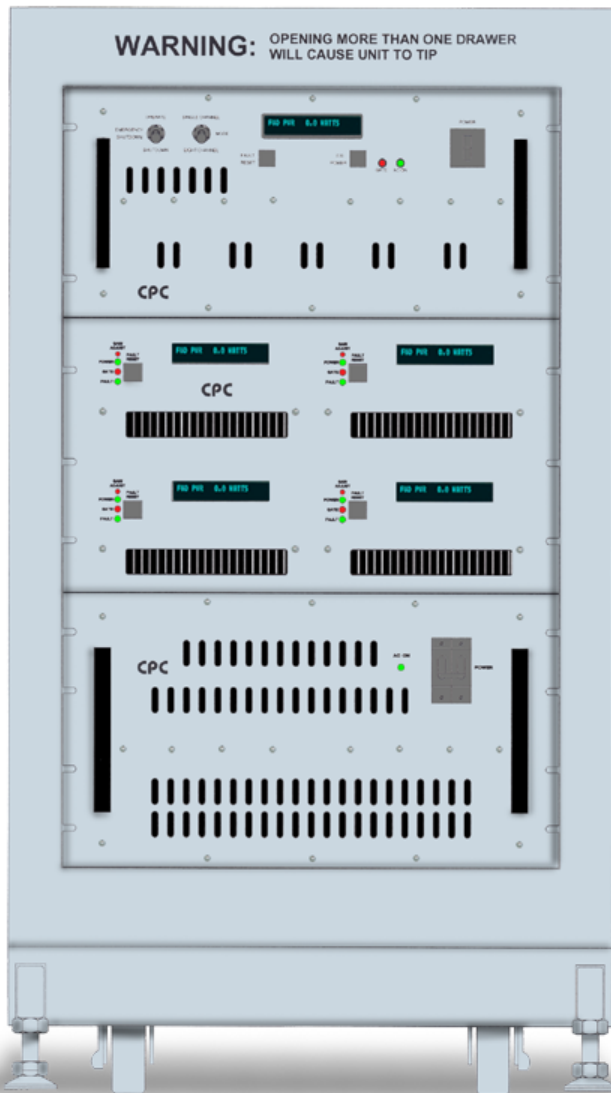


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Model #: I6T500M-4C Frequency Range: 650-710 MHz

System Features

Printer
Friendly
Version



* 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 0I option)
- Forward/ Reflected RF Power
- Fault reset
- Low power mode

Front panel indicators:

- | | |
|--------------------|---------------------------|
| AC power on | Power supply fault status |
| Standby mode | VSWR fault |
| Blanking (Gate) | Thermal fault |
| RF overdrive fault | Energy fault |

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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