



The world's leading supplier of broadband power amplifiers.

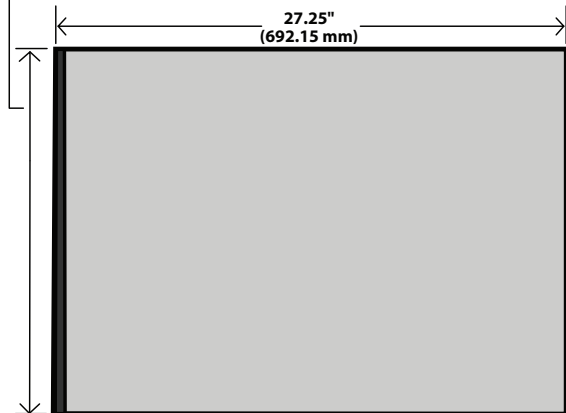
Model #: PA200M07K Frequency Range: 200 ±1 MHz

NOTE: Output power levels available from 1 kW to 7.5 kW operating frequencies from 50 MHz to 500MHz (spot frequency ±1 MHz)
Stackable and configurable to >20 kW

Specifications*



15.75" (9U)
(400.05 mm)



SIDE VIEW

Operating frequency	200 ±1 MHz
Pulse power into 50 ohms	7000 W (min.)
Pulse width	2.5 msec max.
Linearity (±1.5 dB, class AB)	7000 W (min.)
Gain (0 dBm input)	+ 67 dB (nominal)
Gain flatness	± 1 dB, typ.
Harmonic content (2nd/3rd)	-20 dB/ -12 dBc, typ.
Input/ Output impedance	50 ohms (nominal)
Input VSWR	Less than 2:1
Duty cycle	20% (max.)
Amplitude rise/fall time	350 ns, typ.
Amplitude droop	5% max.
Phase change / output power	12° to rated power, typ. 25° max.
Phase error overpulse	5° to 2.5 ms duration, typ.
Noise figure	12 dB typ.
Output noise (blanked)	20 dB over thermal, typ.
Blanking delay	1 μs, typ., on/off, TTL signal
Pulse overshoot	5% max.

Communication Power Corporation

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* CPC reserves the right to change specifications without notice.



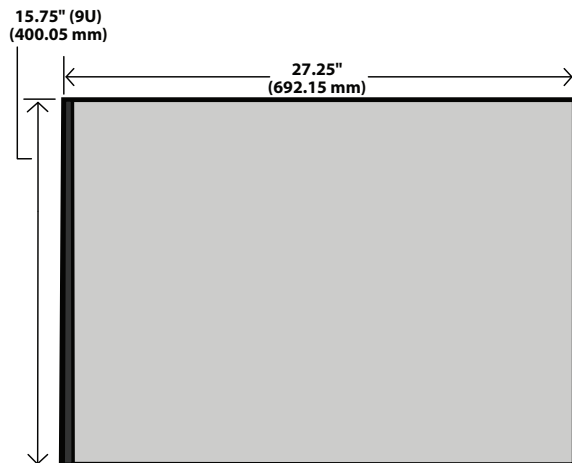
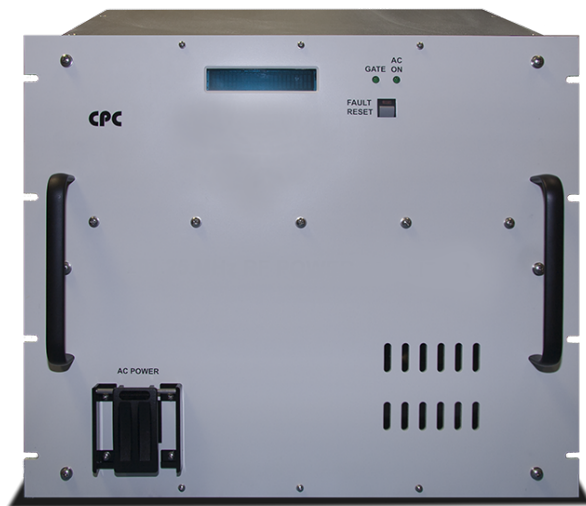
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System Features



SIDE VIEW

Protection functions:

- Manual fault reset
- Maximum forward power
- Maximum average power
- Maximum VSWR
- Over temperature
- Power supply over voltage

Controls, front panel:

- AC power on/off
- Forward/ Reflected RF Power
- Fault reset

Connectors, rear panel:

- AC mains, Receptacles, EMI filtered
- RF input: BNC (F)
- RF output: Type N (F)
- Noise blanking: BNC (F) dual polarity
- Interface: 25 pin D (F), EMI filtered
- Fwd/ Ref RF sample: SMA (F)
- Protective ground: threaded bolt

Front panel indicators:

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

Interface functions:

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

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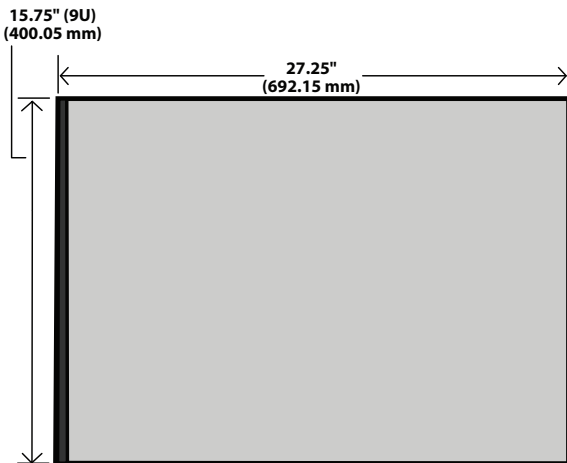
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Environmental

Cooling	Liquid
Operating temperature	+10 to 40°C
AC line voltage	208 VAC, +/-10%, 47-63 Hz 3 phase or single phase
Chassis size	15.75 x 19 x 27 (HWD,inches) Rack mountable
Net weight	200 lbs. (approx.)
Compliance	CE, UL 2601 upon request



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