



## PA2060-005K 2 to 6GHz 500W Solid State Power Amplifier System

### FEATURES

Rack mounted system  
Class AB linear GaN design  
Instantaneous wide bandwidth  
Suitable for all single channel modulation standards  
Built-in protection circuits  
High reliability and ruggedness

### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 6.0 GHz	
Power Output @ Psat	500 Watt Min	CW
Power Gain	57 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	47dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	4 KW Max	At rated output
Max Input Power Protection	+8 dBm	Note 1
Load VSWR Protection	5 : 1	Note 2

#### Notes:

Nominal Input Power is 0dBm. +8dBm is allowed for up to 10Sec with no damage.  
1 Minute Max @ rated min Pout

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 311 x 600 mm	R7U Rack Mount Chassis
Weight	45 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	Remote Bluetooth application
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

### Applications

Test and Measurement  
Electronic Warfare  
Radar  
Broadband Jamming  
Public Safety

### Quality & Certifications

AS9100 Rev C  
ISO9001:2008

### Global Service Centers

Orlando, USA

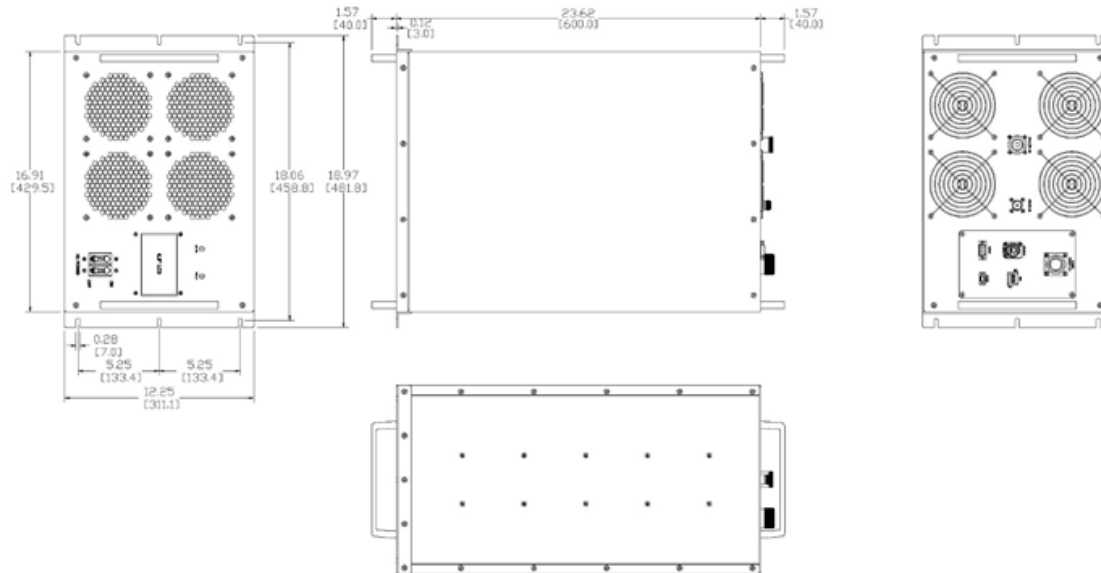


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**OUTLINE DRAWING(ref. Only)**



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**Experienced**

**MtronPTI** continues nearly fifty years of service to aerospace, defense communication and control, Internet and mobile infrastructure, lab and field instrumentation OEMs.

**Vertically integrated**

**MtronPTI** provides High reliability, High Power Solid State Power Amplifier solutions for demanding applications. Our design and manufacturing capabilities cover 250KHz to 47GHz frequency range with power levels of 1W to 4kW for CW & Pulse application modules and over 10kW for such systems. Synergy between our engineering manufacturing— from concept, simulation, electrical & mechanical layouts to assembly & testing capabilities allow for quick engineering & manufacturing responses to customer requests.

**One-on-one technical relationships**

Each project is unique in design, environmental, schedule and cost requirements. **MtronPTI** engineers work with your designers to select the best approach. Six sigma and AS9100 Rev C quality systems ensure reliable solutions.

**Long term support**

**MtronPTI** uses Rapid Process Feedback, Lean Manufacturing and Demand Flow Technology for right product, right time, on specification. **MtronPTI** also manages the supply chain: aligning forecasts, qualifying purchased component suppliers and working with distributors, hubs and portals to make sure every time the production line reaches for an **MtronPTI** part, it'll be there.

