

## PA92383 4.0 - 8.0GHz, 250W 54dB SOLID STATE HIGH POWER AMPLIFIER SYSTEM

### FEATURES

Rack mounted system  
Class AB solid-state linear design  
Instantaneous wide bandwidth  
Suitable for all modulations standards  
Built-in protection circuits  
High reliability and ruggedness



### Applications

Test and Measurement  
Electronic Warfare  
Radar  
Broadband Jamming  
Public Safety

### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 8.0 GHz	
Power Output @ Psat	250 Watt Min	CW
Power Output @ P1dB GCP	100 Watt Typ	
Nominal Input power	0dBm	
Power Gain	54 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	42dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>30 dBc Typ	At rated output
Non Harmonic Spurious	60 dBc Min	
Operating Voltage	180 - 240 VAC	
Power Consumption	3000 Watt Max	At rated output
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	1minute

### ENVIRONMENTAL CHARACTERISTICS

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

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	R7U Rack Mount Chassis	See Outline
Weight	35 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
Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	Remote Bluetooth application. Pulse operation in manual mode.

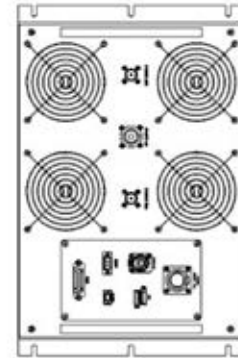
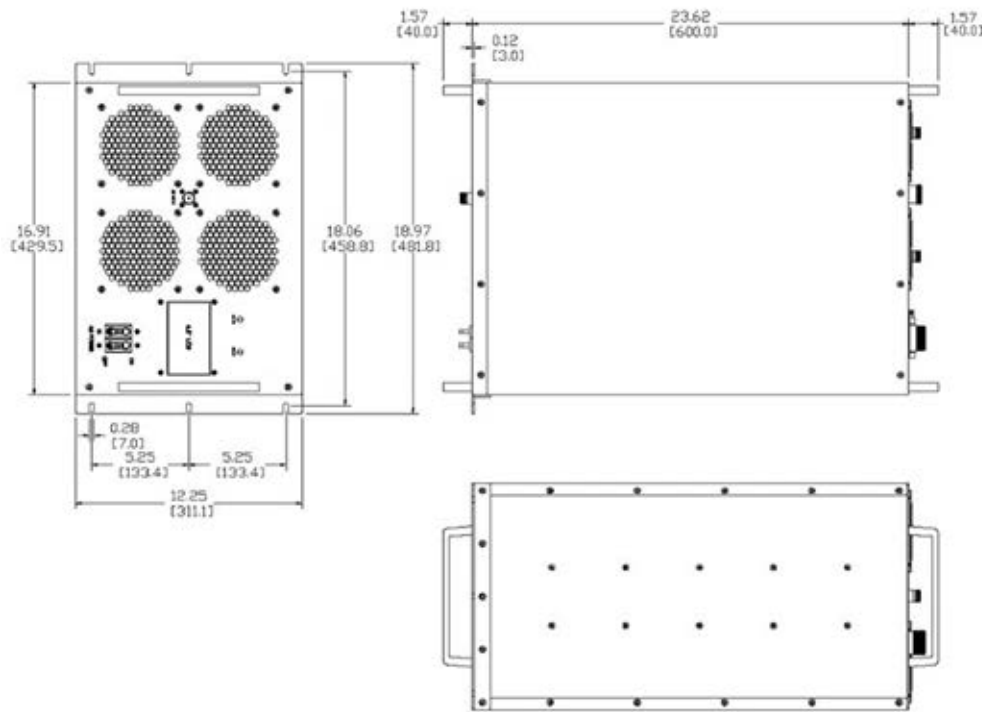
### Quality & Certifications

AS9100 Rev C  
ISO9001:2008



## Connect with MtronPTI

**mtronpti.com**



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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 and TWT 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.

