

# LINEAR WIDEBAND POWER AMPLIFIER

**Model – AP223233M6474AC**

## General Description:

Elite RF's AP Series amplifier is a wideband power amplifier designed for pulsed signals fabricated on LDMOS process and can operate up to **233 MHz**. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, this product comes with an industry leading **2 -year warranty**.



### Features

- High Output Power
- High Gain
- SNMP: Enable, Temp, PS indication
- 2U- 19" rack mount
- Built-in Protection thru Hybrid
- Connectors on front panel
- Air output through sides/front panel
- Low bias on final devices for output noise reduction
- SMA Sample Port, +7dBm max output

### Protections

- Thermal Overload
- Over Voltage
- High VSWR

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	223		233	MHz
Output Power Pk	Psat	2500	3000		Watt
Average Power	Pavg	250	300	900	Watt
Small Signal Gain	Gp	70	75		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
Duty Cycle	DC	0	10	30	%
Harmonics	H		-20		dBc
Spurious Signals	Spur	-50	-60		dBc
AC Operating Voltage	Opv	200	220	240	VAC
AC Power at 3000 watts PK 30% DC	Pd		1600		Watt
Class of Operation	C		AB		Class
Pulse Width	PW	1	100	150	usec
Large Signal Gain	Lsg		74		dB
Max Load VSWR @ 3000 Watts	ML		6: 1		Ratio

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	Tc	0		+60	Deg. C
Storage Temperature	Tstg	-40		+85	Deg. C
Relative Humidity (non-condensing)	RH			95	%
Altitude	ALT			10,000	Feet
Vibration/Shock	VI /SH				Normal Truck Transport

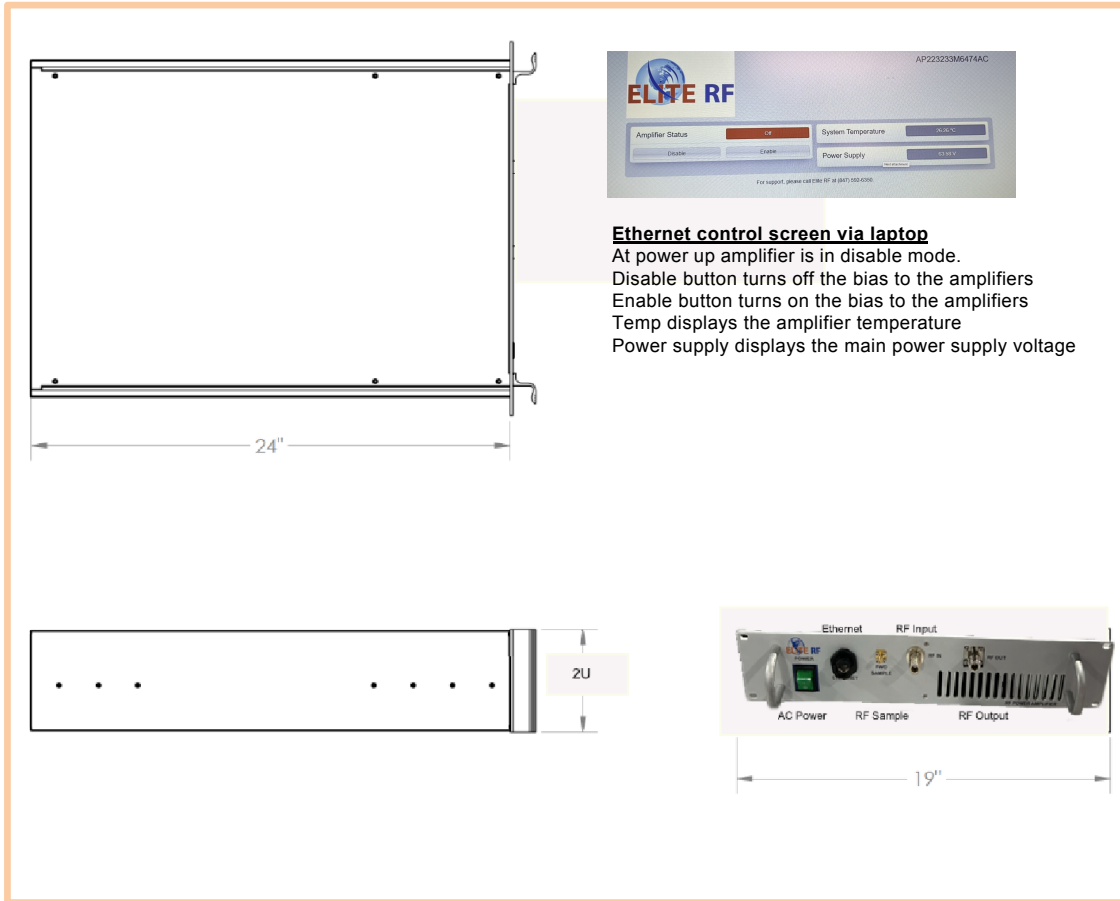
## MECHANICAL CHARACTERISTICS

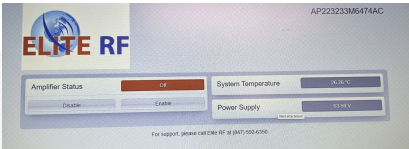
Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 24 x 3.5		Inches
Weight	Wt.		45		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

## OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	N/A
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	N/A

## Mechanical Drawings





**Ethernet control screen via laptop**  
 At power up amplifier is in disable mode.  
 Disable button turns off the bias to the amplifiers  
 Enable button turns on the bias to the amplifiers  
 Temp displays the amplifier temperature  
 Power supply displays the main power supply voltage

