

# UC-400KU 400W HPA

## TWT Based High Power Amplifier



Covering the need for a high powered amplifier above SSPA's cost effectiveness, Upcom Technologies' has released a line Travelling Wave Tube amplifiers. It based on time and field proven TWT and modular power supply technologies allowing for superior reliability and ease of field service ability.

- **COST EFFECTIVE HIGH POWER**
- **UNIVERSAL POWER INPUT**
- **FRONT PANEL CONTROL**
- **BUILT-IN REDUNDANCY SWITCHING**
- **MODULAR POWER SUPPLY DESIGN**
- **3 YEAR WARRANTY!**

<b>Frequency Range:</b>	13.75 to 14.50 GHz (other frequencies available)	<b>Input VSWR:</b>	1.30:1 max.
<b>Output Power at the Flange:</b>	375W, typical 350W, min.	<b>Output VSWR:</b>	2.00:1 max.
<b>Intermod Products:</b>	-24dBc at 7dB backoff	<b>Load VSWR:</b>	1.50:1 max.- spec. 2.00:1 max. - continuous
<b>Spectral Regrowth (Single QPSK Signal):</b>	meets -26dBc at 135W output	<b>RF Connectors:</b>	Input: N-type; rear panel Output: WR-75; rear panel Sample Port: N-type; rear panel
<b>Amplifier Gain:</b>	60dB min.	<b>Display:</b>	Vacuum Fluorescent Display
<b>Gain Variation:</b>	4dB max.	<b>Control:</b>	User Panel, RS-422/RS-485
<b>Gain Slope:</b>	.03 dB/MHz max.	<b>Altitude:</b>	Up to 10,000 ft ( derate 2°C/1,000ft. above 3000ft)
<b>Gain Stability:</b>	.25 dB/24-hours	<b>Temperature:</b>	Operating Temperature: 0° to 50°C Storage Temperature: -40° to 70°
<b>Gain Adjustment:</b>	0-35dB	<b>Shock and Vibration:</b>	Equal to Mobile Van or Antenna Pedestal
<b>AM-to-PM Conversion:</b>	6°/dB at rated power	<b>Cooling:</b>	Built-in forced air, rear intake and rear exhaust
<b>Harmonic Output:</b>	-60dBc	<b>AC Power:</b>	99-255VAC, single-phase 50/60Hz, 1400VA
<b>Residual AM</b>	-50dBc to 4kHz max. 4kHz to 500 kHz -20 (1.15 + logF) (F in kHz) max. -85dBc above 500 kHz	<b>Dimensions:</b>	19"W 5.25"H 24"D @ 67lbs
<b>Phase Noise:</b>	meets limits 1 & 2 of IESS-308	<b>Certification:</b>	ETS 300/327
<b>Noise and Spurious:</b>	-65dBW/4kHz max.		
<b>Group Delay:</b>	Linear: .01 nSec/MHz Parabolic: .05 nSec/MHz (squared) Ripple: .50 nSec/MHz (peak-to-peak)		

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