



- Full color touchscreen display
- Linear solid state design
- Ultra efficient switching power supply
- Built in monitoring and control (remote port, Ethernet, SNMP)
- Field proven reliability
- High efficiency gain stages
- CW, pulsed, and modulated applications
- 2 Year Warranty

## RF CHARACTERISTICS

<b>Frequency Range</b>	Broadband VHF 20 - 500 MHz (optimized for 162.5 MHz)
<b>Input Power</b>	0 dBm (for rated output power)
<b>Power Level</b>	Adjustable 0 – 100% up to 3,000-watts CW (+64.77dBm)
<b>Power Gain</b>	65 dB
<b>Gain Flatness across BW</b>	+/- 1.0 dB AGC off, +/- 0.8 dB AGC on
<b>Input Impedance</b>	50 $\Omega$ into amplifier, N female (others available)
<b>Input Return Loss</b>	> 15 dB typical
<b>Output Impedance</b>	50 $\Omega$ , 1-5/8 EIA (others available)
<b>RF Sample</b>	50 $\Omega$ , BNC female
<b>Modulation</b>	CW, FM, QAM, pulse, etc.
<b>Harmonics</b>	> 30 dBc typical (even and odd)
<b>Spurious Emissions</b>	> 60 dBc typical

## MECHANICAL FEATURES

<b>Minimal Rack Space</b>	Power Amplifiers: 5U (8.75")H x 25"D x 19"W	Power Supplies: 3U (5.25")H x 25"D x 19"W
<b>Lightweight Enclosures</b>	Aluminum	
<b>Operating Temperature</b>	-10 to +50 C	
<b>Humidity</b>	95%, non-condensing	
<b>Cooling</b>	Integrated liquid cooling (optional air cooling)	

## INTERFACE

<b>DB25 Remote Port</b>	<p><i>Control:</i> RF carrier on/off, RF power up/down, reset</p> <p><i>Monitor:</i> Forward/reflected RF level, control PCB Vcc</p> <p><i>Flags:</i> Amplifier overdrive, VSWR (adjustable trip point), high temperature</p>
<b>Ethernet</b>	<p><i>Control:</i> RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset</p> <p><i>Monitor:</i> Forward/reflected RF level, DC pallet voltage, RF input level, temperature, VSWR trip point, model/serial number</p> <p><i>Flags:</i> Carrier on/off, amplifier overdrive, DC pallet voltage, VSWR, RF input level, temperature, AGC/manual status</p>
<b>SNMP</b>	<p><i>Control:</i> RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset</p> <p><i>Monitor:</i> Forward/reflected RF level, DC pallet voltage, RF input level, temperature, pallet current, attenuation, run time, RF fault, model/serial number</p> <p><i>Flags:</i> Amplifier overdrive, VSWR, temperature, SNMP error</p>



Screenshots off Touchscreen Interface

## ELECTRICAL CHARACTERISTICS

**Flexible AC Input** 208Vac, 3-phase, 60 Hz (others available upon request)

\*\* Due to continuous product improvements, Technalogix reserves the right to change specifications without notice. \*\*