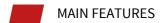


#### **M Series**





- Simple to Use
- High reliability LDMOS Design
- Modular Design Construction
- Rugged Construction & High Reliability
- 3 Year Warranty

Favouring a simple on/off switch, no interface or built in directional coupler the Instruments for Industry M, Basic Series solid state amplifiers provide outstanding RF performance. Operating over the frequency range from 10 KHz to 220 MHz and can be supplied at power levels up to 200 watts. From the ground up, the M Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

IFI RF amplifiers are very conservatively designed to operate below maximum ratings for ruggedness and long-term reliability. Sixth generation LDMOS transistors provide reliable brute power performance at frequencies up to 220 MHz.

Our RF power amplifiers feature individually shielded assemblies for the module level. This concept of shielded modular design minimises internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

From the ground up, the M Basic Series products are structurally engineered to withstand operation in mechanically hostile environments. Ruggedized versions are available for applications that will be exposed to very harsh environments

# Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
M100	10 kHz -	100 W	80 W	50 dB	1 kVA	20 kg	19 inch, 3U Rack Case, 680 mm Deep
M150		150 W	100 W	52 dB	1.5 kVA	22 kg	
M200	220 MHz	200 W	150 W	53 dB	2 kVA	27 kg	
M25		25 W	20 W	44 dB	0.15 kVA	12 kg	
M50		50 W	40 W	47 dB	0.5 kVA	15 kg	
M75		75 W	65 W	48 dB	0.8 kVA	18 kg	





# RF Specifications

Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-60 dBc
Modulation Formats	AM, FM, Pulse
Output VSWR Tolerance	Infinite any phase (< 4:1 no foldback, > 4:1 gradual foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2.5:1 (max)
Spurious	-70 dBc

### General Specifications

Safety Interlock	Via rear panel mounted BNC-female		
Supply Voltage	< 3KVA Single Phase 90 to 264 VAC > 3KVA Three Phase, 5 Wire STAR, 380 to 415 VAC / 4 Wire Delta, 208 to 240 VAC		
Supply Frequency	47 to 63 Hz		
RF Input Connector	Type N female		
RF Output Connector	Type N Female		
Cooling System	Air Cooled, Self-contained		

#### Available Models

Product	Description
M100	10 KHz to 220 MHz 100W Broadband Power Amplifier
M150	10 KHz to 220 MHz 150W Broadband Power Amplifier
M200	10 KHz to 220 MHz 200W Broadband Power Amplifier
M25	10 KHz to 220 MHz 25W Broadband Power Amplifier
M50	10 KHz to 220 MHz 50W Broadband Power Amplifier
M75	10 KHz to 220 MHz 75W Broadband Power Amplifier

