



ME Series



RF/Microwave Amplifiers

MAIN FEATURES

- 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, ME Basic Series solid state amplifiers provide outstanding RF performance. Operating over the frequency range from 10 KHz to 250 MHz and can be supplied at power levels up to 200 watts. From the ground up, the ME 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 250 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 ME 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
ME100	10 kHz - 250 MHz	100 W	80 W	50 dB	1 kVA	20 kg	19 inch, 3U Rack Case, 680 mm Deep
ME150		150 W	100 W	52 dB	1.5 kVA	22 kg	
ME200		200 W	150 W	53 dB	2 kVA	27 kg	
ME25		25 W	20 W	44 dB	0.15 kVA	12 kg	
ME50		50 W	40 W	47 dB	0.5 kVA	15 kg	
ME75		75 W	65 W	48 dB	0.8 kVA	18 kg	



RF Specifications

Gain Variation (max) \pm	+/- 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
ME100	10 KHz to 250 MHz 100W Broadband Power Amplifier
ME150	10 KHz to 250 MHz 150W Broadband Power Amplifier
ME200	10 KHz to 250 MHz 200W Broadband Power Amplifier
ME25	10 KHz to 250 MHz 25W Broadband Power Amplifier
ME50	10 KHz to 250 MHz 50W Broadband Power Amplifier
ME75	10 KHz to 250 MHz 75W Broadband Power Amplifier