



## SMIV Series



### MAIN FEATURES

- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 year warranty

Instruments for Industry, SMIV Series Solid State amplifiers provide outstanding RF performance. Operating over the frequency range from 400 MHz to 1.0 GHz and can be supplied at power levels up to 2000 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the SMIV Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

Operation safety and ease of use are paramount in IFI product designs. The IFI SMIV Series include a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and system level. In addition, the SMIV series includes an intuitive interface that is sophisticated, comprehensive, and yet simple to use. The color interface displays forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available via the interface as well as over the remote bus. Selection via the interface allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For remote control operation USB, Ethernet, GPIB and RS232 interface are provided as standard. To meet individual application needs, the SMIV Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SMIV series amplifiers are the perfect system for your applications.

### Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
SMIV10	400 MHz - 1 GHz	10 W	10 W	40 dB	0.1 kVA	12 kg	19 inch, 3U Rack Case, 680 mm Deep
SMIV100		100 W	80 W	50 dB	0.9 kVA	17 kg	19 inch, 4U Rack Case, 680 mm Deep
SMIV1000		1000 W	800 W	60 dB	7 kVA	114 kg	19 inch, 16U Rack, 1000 mm Deep
SMIV150		150 W	120 W	52 dB	1.6 kVA	19 kg	19 inch, 4U Rack Case, 680 mm Deep
SMIV200		200 W	160 W	53 dB	2.4 kVA	23 kg	
SMIV2000		2000 W	1600 W	63 dB	14 kVA	227 kg	19 inch, 20U Rack, 1000mm Deep
SMIV25		25 W	25 W	44 dB	0.26 kVA	13 kg	19 inch, 3U Rack Case, 680 mm Deep
SMIV250		250 W	200 W	54 dB	2.4 kVA	28 kg	19 inch, 4U Rack Case, 680 mm Deep
SMIV400		400 W	300 W	56 dB	4 kVA	37 kg	
SMIV50		50 W	50 W	47 dB	0.64 kVA	15 kg	19 inch, 3U Rack Case, 680 mm Deep
SMIV500	500 W	350 W	57 dB	4 kVA	55 kg	19 inch, 4U Rack Case, 680 mm Deep	



**RF Specifications**

Gain Variation (max) ±	+/- 3.0 dB
Harmonics P1dB	-20 dBc
Modulation Formats	AM, FM, Pulse
Gain Control	0-30 dB in 255 Steps
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 (min.)	-60 dBc
Spurious (typ.)	-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 or 7/16 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained

**Available Models**

Product	Description
SMIV10	400 MHz to 1 GHz 10W Broadband Power Amplifier
SMIV100	400 MHz to 1 GHz 100W Broadband Power Amplifier
SMIV1000	400 MHz to 1 GHz 1000W Broadband Power Amplifier
SMIV150	400 MHz to 1 GHz 150W Broadband Power Amplifier
SMIV200	400 MHz to 1 GHz 200W Broadband Power Amplifier
SMIV2000	400 MHz to 1 GHz 2000W Broadband Power Amplifier
SMIV25	400 MHz to 1 GHz 25W Broadband Power Amplifier
SMIV250	400 MHz to 1 GHz 250W Broadband Power Amplifier
SMIV400	400 MHz to 1 GHz 400W Broadband Power Amplifier
SMIV50	400 MHz to 1 GHz 50W Broadband Power Amplifier
SMIV500	400 MHz to 1 GHz 500W Broadband Power Amplifier