



SVCE 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, SVCE Series Solid State amplifiers provide outstanding RF performance. Operating over the frequency range from 20 MHz to 500 MHz 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 SVCE 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 SVCE 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 SVCE 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 SVCE Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SVCE 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
SVCE10	20 MHz -	10 W	10 W	40 dB	0.1 kVA	12 kg	19 inch, 3U Rack Case, 680 mm Deep
SVCE100		100 W	80 W	50 dB	0.9 kVA	17 kg	19 inch, 4U Rack Case, 680 mm Deep
SVCE1000	500 MHz	1000 W	800 W	60 dB	7 kVA	114 kg	19 inch, 16U Rack, 1000 mm Deep
SVCE150		150 W	120 W	52 dB	1.1 kVA	19 kg	19 inch, 4U Rack Case, 680 mm Deep
SVCE2000		2000 W	1600 W	63 dB	14 kVA	227 kg	19 inch, 20U Rack Case, 1000mm Deep
SVCE25		25 W	25 W	44 dB	0.29 kVA	13 kg	19 inch, 3U Rack Case, 680 mm Deep
SVCE250		250 W	200 W	54 dB	2.4 kVA	28 kg	19 inch, 4U Rack Case, 680 mm Deep
SVCE50		50 W	50 W	47 dB	0.65 kVA	15 kg	19 inch, 3U Rack Case, 680 mm Deep
SVCE500		500 W	350 W	57 dB	4 kVA	55 kg	19 inch, 6U Rack Case, 680 mm Deep



RF Specifications

Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-60 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	-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
SVCE10	20 MHz to 500 MHz 10W Broadband Power Amplifier
SVCE100	20 MHz to 500 MHz 100W Broadband Power Amplifier
SVCE1000	20 MHz to 500 MHz 1000W Broadband Power Amplifier
SVCE150	20 MHz to 500 MHz 150W Broadband Power Amplifier
SVCE2000	20 MHz to 500 MHz 2000W Broadband Power Amplifier
SVCE25	20 MHz to 500 MHz 25W Broadband Power Amplifier
SVCE250	20 MHz to 500 MHz 250 Broadband Power Amplifier
SVCE50	20 MHz to 500 MHz 50W Broadband Power Amplifier
SVCE500	20 MHz to 500 MHz 500W Broadband Power Amplifier