

S41 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, S41 Series Solid State amplifiers provide outstanding RF performance. Operating over the fre-quency range from 0.8 GHz to 4.2 GHz and can be supplied at power levels up to 300 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the S41 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 S41 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 S41 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 ampli¬fier 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 S41 Series amplifiers can be easily customized with other options. With this capability and its reliable design, the S41 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
S41-100	0.8 GHz -	100 W	80 W	50 dB	0.9 kVA	37 kg	19 inch, 3U Rack Case, 680 mm Deep
S41-200	0.6 GHz -	200 W	150 W	53 dB	1.7 kVA	55 kg	
S41-300	4 GHZ	300 W	250 W	55 dB	2.4 kVA	100 kg	19 inch, 4U Rack Case, 680 mm Deep
S41-40		40 W	30 W	46 dB	0.3 kVA	21 kg	19 inch, 3U Rack Case, 680 mm Deep
S41-75		45 W	60 W	49 dB	0.6 kVA	35 kg	





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 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained

Available Models

Product	Description
S41-100	800 MHz to 4.2 GHz 100W Broadband Power Amplifier
S41-200	800 MHz to 4.2 GHz 200W Broadband Power Amplifier
S41-300	800 MHz to 4.2 GHz 300W Broadband Power Amplifier
S41-40	800 MHz to 4.2 GHz 40W Broadband Power Amplifier
S41-75	800 MHz to 4.2 GHz 75W Broadband Power Amplifier

