



S61 Series Solid State Microwave Power Amplifiers

1.0 – 6.0 GHz • 5 Watts to 250 Watts

Instruments for Industry, S61 Series Solid State amplifiers are state-of-the-art amplifiers and provide outstanding RF performance. The S61 Series amplifiers operate over the frequency range from 1.0-6.0 GHz and can be supplied at power levels from 5 watts to 250 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the S61 Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site. They feature heavy-duty aluminum chassis construction with a modular approach for easy access and service.

Operation safety and ease of use are paramount in IFI product designs. The IFI S61 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 the system level.

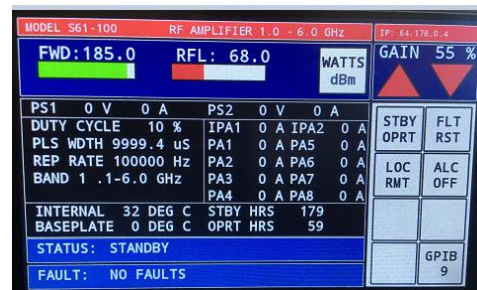
In addition, the S61 series includes a state-of-the-art interface that is sophisticated, comprehensive, and yet simple to use.

The backlit LCD screen shows forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available in the amplifier front panel display as well as over the remote bus. Selection switches allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For computer automation both an RS-232 and IEEE interface are provided as standard. To meet individual application needs, the S61 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the S61 series amplifiers are the perfect system for your applications.

IFI Amplifier Features:

- Solid State Design
- Gain Control
- Module & System Temp-Monitoring
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Backlit Color Touchscreen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488, Ethernet, USB & RS232 Remote
- Whisper Mode: lower acoustic noise (Temp controlled variable speed)
- Peak power metering
- Power Indication in Watts or dBm



MODELS AND GENERAL SPECIFICATIONS:

MODEL NUMBER	FREQUENCY RANGE (GHZ)	RATED POWER (WATTS MINIMUM)	P1DB POWER (WATTS MINIMUM)	GAIN (DB MIN)	MAINS (KVA)	WEIGHT (POUNDS)	SIZE (INCHES)
S61-5	1.0-6.0	5	5	37	0.10	40 LBS	5.25" H X 19" W X 24" D
S61-10	1.0-6.0	10	8	40	0.10	45 LBS	5.25" H X 19" W X 24" D
S61-20	1.0-6.0	20	15	43	0.20	50 LBS	5.25" H X 19" W X 24" D
S61-25	1.0-6.0	25	20	44	0.25	60 LBS	5.25" H X 19" W X 24" D
S61-40	1.0-6.0	40	30	46	0.30	75 LBS	5.25" H X 19" W X 24" D
S61-50	1.0-6.0	50	40	47	0.40	90 LBS	5.25" H X 19" W X 24" D
S61-75	1.0-6.0	75	60	49	0.60	100 LBS	5.25" H X 19" W X 24" D
S61-100	1.0-6.0	100	80	50	0.8	180 LBS	5.25" H X 19" W X 24" D
S61-150	1.0-6.0	150	130	52	1.2	200 LBS	8.75" H X 19" W X 25" D
S61-200	1.0-6.0	200	150	53	1.5	400 LBS	8.75" H X 19" W X 25" D
S61-250	1.0-6.0	250	200	54	2.0	450 LBS	2X10.5" H X 19" W X 25" D