



SCCX3500 Solid State RF Power Amplifier

10kHz – 220 MHz • 3.5kW • Rack Integrated • Solid State Reliability

The Instruments for Industry, SCCX3500 Solid State amplifier is state-of-the-art and provides outstanding RF performance. The SCCX3500 amplifier operates over the frequency range from 10kHz - 220 MHz and supplies >3.5KW of CW Power. From the ground up, the SCCX3500 amplifier is built to withstand rugged handling. This series features heavy-duty aluminum chassis construction rack-integrated with a modular approach for easy access and service. The SCCX3500 is perfectly suited for all Military / Avionic and EMC testing as well as general purpose industrial applications.

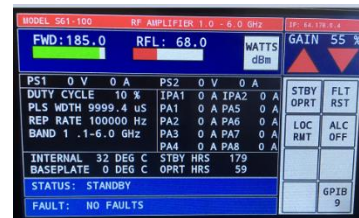
Operation safety and ease of use are paramount in IFI product designs. The SCCX3500 amplifier includes a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and the system level. In addition, the SCCX3500 includes a state-of-the-art user interface that is sophisticated, comprehensive, and yet simple to use.

The backlit Color Touchscreen shows forward/reverse power indication in watts & dBm, system status and self-diagnostic information. Peak power metering is incorporated to measure forward and reflected power while producing pulse power. All the amplifier 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 an RS-232 and IEEE interface are provided as standard as well as USB & Ethernet. To meet individual application needs, the SCCX3500 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the SCCX3500 series amplifiers are the perfect system for your applications.

Features

- Solid State Design
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Color Touchscreen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface, RS232, USB & Ethernet Remote
- Whisper Mode: lower acoustic noise (Temperature controlled variable speed)
- Peak power metering





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General Specifications:

Model Number	Frequency Range	Rated Power (watts minimum)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
SCCX3500	10kHz – 220MHz	3500	66	16.0	700 Lbs.	Rack Integrated

Standard Features for IFI SCCX3500 Solid State Amplifier

Standard Features:	<p>VSWR Reflected Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance, Open & Short Circuit Protection.</p> <p>* Alternate Prime Power (specify at time of order)</p> <p>GPIB IEEE 488, RS232, USB & Ethernet Remote Control</p> <p>RF Sample Port on the Front Panel, 112R for rear panel</p> <p>Internal Pre-amplification to obtain rated output power with an input level of 0 dBm or less.</p> <p>Gain Control Local & Remote, 30dB range</p> <p>RF Input/Output Connectors on the Front Panel, 118R for rear panel</p> <p>Internal Systems Diagnostics & Status Indicators</p> <p>Total/Operate Elapsed Time Metering in hours</p> <p>RF Safety Interlock</p> <p>Forward/Reflected Power Indication simultaneously on Front Panel display</p>
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IFI SCCX3500 Solid State Amplifier Specifications

Frequency Range:	10kHz - 220 MHz
Rated Output Power:	3500W min. 3750 nominal
P1dB Power:	1500W min. 1700 nominal
Gain @ Rated Power:	66 dB
Prime Power:	As Required (Some are listed below)
Input/output Impedance:	50 ohms
RF Input/ Sample Connectors:	Type N Female, unless specified otherwise
RF Output Connector:	Type 716 Female Other connectors available by request or specification
Input VSWR:	2.0:1
Output VSWR:	2.5:1
Operating Temp:	0° to 50° C
Non-operating Temp:	-40° to 70° C (50,000 feet max)
Humidity:	95% without condensation
Altitude:	10,000 feet
Cooling System:	Air cooled, self contained
Modulation:	Pulse, AM, FM
Configuration:	Rack Mountable
Spurious Outputs:	<-60 dBc nominal
Harmonics:	-20dBc nominal @ Linear Power



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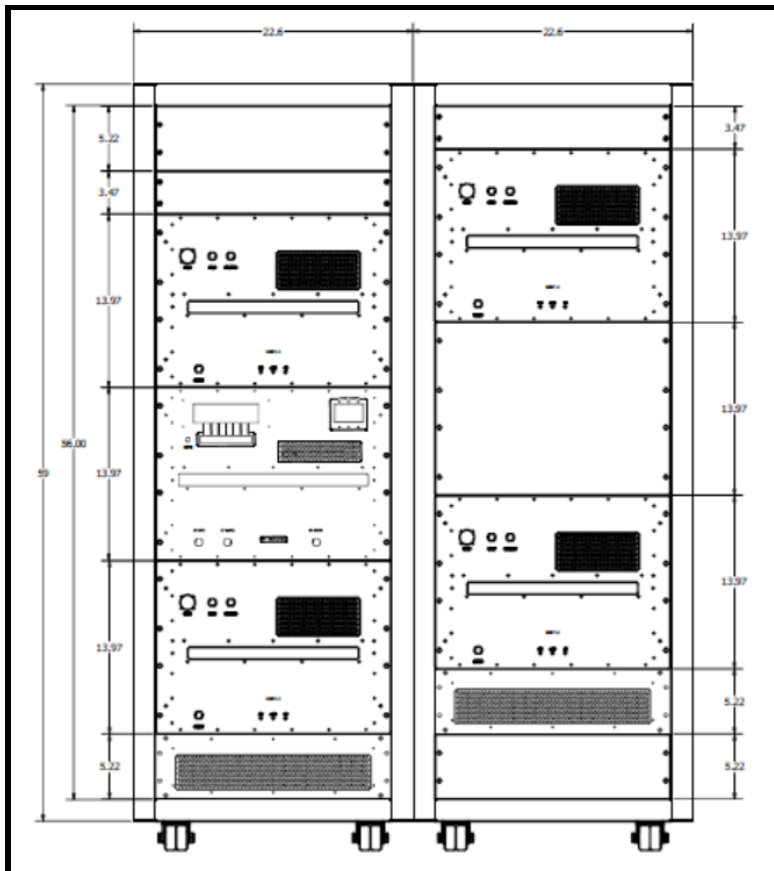
Standard Prime Powers:

- 120/208VAC ±10% 50/60 Hz, three phase
- 220/240 VAC ±10% 50/60 Hz, three phase Wye
- 200/220/230/240VAC ±10% 50/60 Hz, three phase Delta power
- Special Prime Powers other then listed are subject to availability

Some Available Options for IFI SCCX3500 Series Solid State Amplifiers

Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control
Option 110-3	GPIB IEEE-488 and RS 485 Remote Control
Option 118A:	RF Input On Front Output On Rear
Option 118B:	RF Input On Rear Output On Front
Option LC:	Liquid Cooled

Outline Configuration





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