



## 350AH1A

- M1 through M3
- 350 Watts CW
- 10Hz–1MHz



### Features

The Model 350AH1A amplifier is a portable, self-contained, air-cooled, broadband, solid state amplifier unit designed for laboratory applications where instantaneous bandwidth, high gain and moderate power output are required. When used with an RF sweep generator, the 350AH1A will provide up to 350 watts of output power.

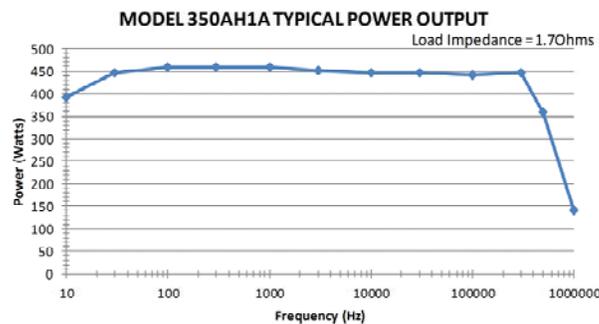
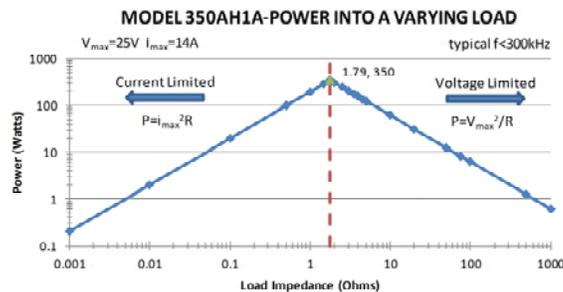
Housed in a stylish contemporary enclosure, the unit provides instantaneous power for typical applications such as magnetic susceptibility testing, 4–10 kHz requirement of CS114 of MIL-Std-461F, antenna and component testing, watt-meter calibration and as a driver for higher power amplifiers.

The 350AH1A is powered by a high efficiency switching supply, with autoringing AC input circuitry which will automatically accept voltages from 90 to 260 VAC in the 47 to 63 Hz frequency range. The RF amplifier stages are protected from over-temperature and over-current conditions by removing the DC voltage to them when a fault

is detected. The touch screen display on the front panel indicates the operational status and any pending fault conditions when an over-temperature, over-current or power supply fault has occurred. The unit can be returned to normal operation when the condition has been cleared. The unit also includes digital control for both local and remote control of the amplifier. The RISC microprocessor controller board provides IEEE-488 (GPIB), USB, Ethernet and asynchronous full duplex RS-232 communication control of all amplifier functions.

Two 350AH1A amplifiers may be used together in a “bridged” output configuration by supplying the same signal to both amplifiers and using the internal signal inversion feature of one amplifier. The amplifier output grounds are connected and the load is placed across the two amplifier outputs.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



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## Specifications

**OPERATION:** Class AB Linear

**FREQUENCY RESPONSE:** 10Hz–1 MHz instantaneously

**POWER OUTPUT (1.79 Ohm load)**  
CW, Minimum:  
350 watts, 10Hz–300kHz  
350–55 watts, 300kHz–1MHz  
Voltage Output, Minimum  
25 Vrms, 10Hz–300kHz  
25-10 Vrms, 300kHz–1MHz  
Current Output, Minimum  
14 Arms, 10Hz–300kHz  
14–5.5 Arms, 300kHz–1MHz

**FLATNESS:** ±1.0 dB, 10Hz–300kHz  
±4.0 dB, 300kHz–1MHz

**GAIN (POWER):** 47 dB minimum, 10Hz–300kHz  
39 dB minimum, 300kHz–1MHz

**POWER GAIN CONTROL RANGE:** 48 dB minimum

**INPUT SIGNAL:** 0–2 Vrms

**INPUT IMPEDANCE:** 600 Ohms typical

**OUTPUT IMPEDANCE:** < 1Ω typical

**MISMATCH TOLERANCE:** 100% of rated power without fail.

**MODULATION CAPABILITY:** Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal

**PRIMARY POWER:** 90–260 VAC; 47 to 63 Hz, single phase, 1200 watts maximum

**CONNECTORS:**  
RF INPUT Type BNC female  
RF OUTPUT 5-way binding posts  
REMOTE CONTROL  
IEEE-488 24 pin female  
RS-232 9 pin subminiature D (female)  
USB Type B (female)  
Ethernet RJ-45

**REMOTE INTERLOCK:** 15 pin subminiature D

**COOLING:** Forced air (self contained fans)

**EXPORT CLASSIFICATION:** EAR99

## Model Configurations

MODEL NUMBER	RF CONNECTOR LOCATION	INSTRUMENT CASE	WEIGHT	SIZE (W x H x D)
350AH1A	Front Panel	Yes	25 kg (55.0 lb)	50.3 x 19.9 x 37.6 cm
350AH1AM1	Rear Panel	No	18.2 kg (40.0 lb)	48.3 x 17.8 x 37.6 cm
350AH1AM2	Rear Panel	Yes	25 kg (55.0 lb)	50.3 x 19.9 x 37.6 cm
350AH1AM3	Front Panel	No	18.2 kg (40.0 lb)	48.3 x 17.8 x 37.6 cm