

LINEAR AMPLIFIER

Professional radio products and accessories

600

26-35 MHz

300 watts — Mobile/Base

Bilateral

The all new Hy-Gain Model 600 exhibits several advancements in linear design. The 600 is the first linear for the Business Radio frequency spectrum to utilize grid driven, neutralized and stabilized circuitry. The electronic design permits positive control over tube destruction during tune-up, and a drive control provides correct levels during typical operation. Ultra-linearity, spurious reduction and mechanical design make the Hy-Gain 600 the easiest to install, cleanest and most efficient operating linear on the market. Tune-up procedure, installation, and maintenance are all made easy by the RF-Deck type construction. Separate power supply for mobile and base operation with one RF-Deck makes dual service feasible from both an operational and cost standpoint.

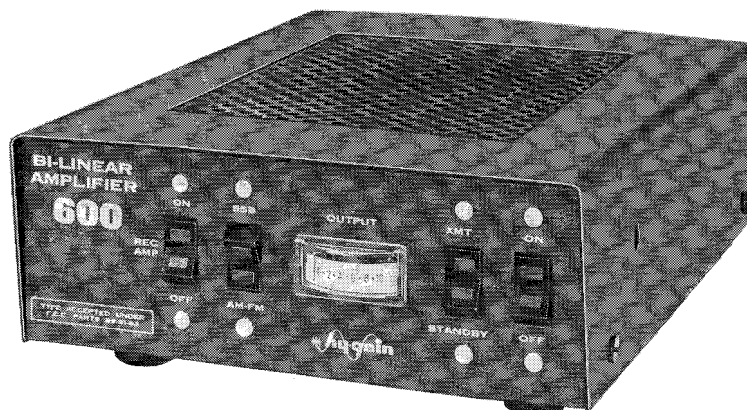
An output meter provides instant visual proof of operation, showing power and correct modulation characteristics.

A built-in selectable solid state (IC) broad band receiver preamplifier provides up to 20 db gain across the frequency spectrum. Also selectable delay for the automatic keying is furnished, if the amplifier is used in amateur 10 meter SSB service. The delay is controllable for AM/CW/FM operation to fast attack-slow release for SSB/DSB.

The Hy-Gain Model 600 utilizes plug-in sealed relays for all RF and control circuitry. It also has a permanent low pass filter in the output linear to reduce spurious and harmonic radiation. The low pass filter is in the line at all times, even when the linear is off. Solid State components and printed circuitry provide incomparable reliability.

The Hy-Gain Model 600 is surely the optimum method of increasing power and range in the low band, at much less cost.

Caution should be exercised in mobile operation. The primary power requirement on the 13.5 volt DC supply will require an extra duty power source. Transmitting at short intervals will permit a standard car system (35 amps) to handle the load. However, if additional power is called for (300 watts), an extra heavy duty alternator and battery will be required. Approximately 60 amps will be drawn from the battery in this operating condition. Wire size #4 is the minimum to use on the primary wiring if high power is intended.



See other side
for accessories.

SPECIFICATIONS

| | | | |
|---------------------|---|---|--|
| Drive Requirements: | 3.5 watts optimum (will accept 1 through 10 watts) 100% modulated | Maximum Primary Power: | Mobile 13.5V DC nominal, negative ground 60 amps transmit, 3 amps receive Base 115V-AC 60 cycle 6 amps |
| Input Power: | 600 watts | Power Required to Key: | 1 watt |
| Output Power: | 300 watts carrier CW/FM 150 watts AM/100% modulation 300 watts P.E.P. SSB/DSB | Tube Complement: | 2-8908 |
| Class of Operation: | AB ₂ | Modulation: | 100% when operated in accordance with instruction book |
| Switching: | Automatic with application of R.F. drive | Relays: | 2 plug-in, sealed |
| Switching Delay: | Selection of fast attack, slow release, for SSB use (amateur) | Receive Amplifier: | 20 db minimum gain on receive, selectable off/on |
| Frequency Coverage: | Model 600 26 to 35 MHz | Type accepted under Parts 89, 91, 93 for land mobile use. | |
| Weight: | 5.0 lbs. | Illegal on Citizens Band. | |
| Cooling: | Convection | | |
| Spurious Reduction: | -65 db down | | |

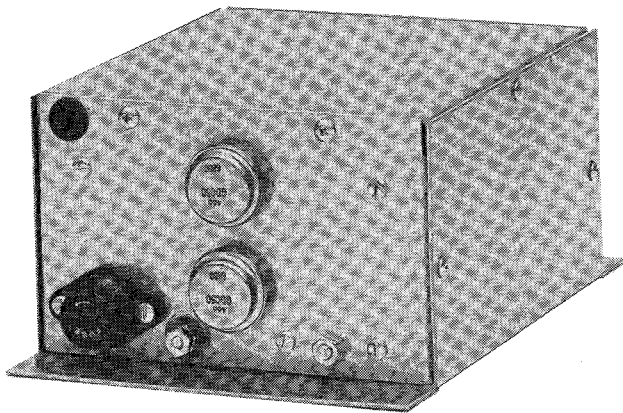
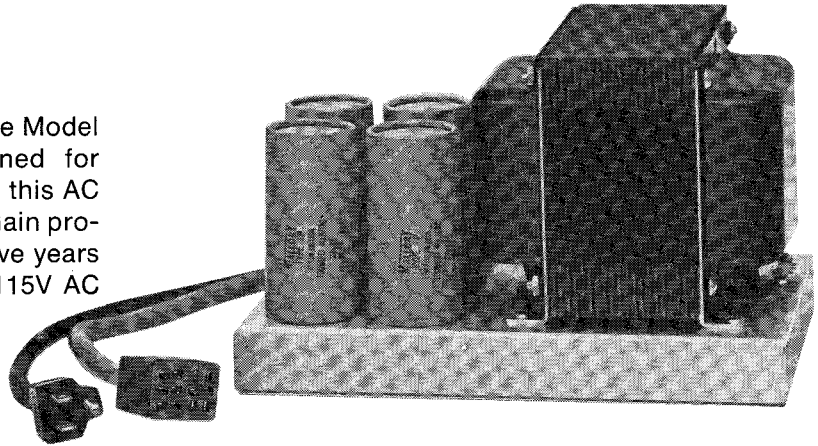
HY-GAIN ELECTRONICS CORPORATION
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LINEAR ACCESSORIES

601
602
494

Model 601 AC base power supply

The matching AC base power supply for the Model 600 Linear Amplifier. Specifically designed for optimum, efficient operation with the 600, this AC power supply is quality engineered to Hy-Gain professional standards. The Model 601 will give years of service under demanding conditions. 115V AC 60 cycle



Model 602 DC mobile power supply

For rugged mobility and service-free operation, the Hy-Gain Model 602 DC power supply is your best investment. Designed to mate with the Hy-Gain Model 600 Linear Amplifier. The Model 602 provides a steady, reliable supply of power. Precision engineered to exacting Hy-Gain professional standards, the Model 602 will stand up under severe operating conditions. 13.5V DC

Model 494 mobile mounting bracket

Designed to give the Model 600 stable, rugged support under all conditions. The Hy-Gain Model 494 mobile mounting bracket installs quickly and easily, with a minimum of effort. This mounting is sturdy, practical and makes a professional-looking installation.

