



## RF LINEAR POWER AMPLIFIERS



**KH6HTV Video** produces a line of RF Linear Power Amplifiers specifically intended for use in Amateur Television service, either analog or digital. TV transmissions, unlike SSB or FM voice, typically last for many minutes or even hours in duration. Thus TV amplifiers must be rated for 100% duty cycles. Our amplifiers are designed for 100% duty cycles and incorporate large heat sinks and cooling fans. We offer a selection of amplifiers with different output powers for the amateur radio 70cm, 33cm and 23cm bands. The amplifiers all share a common design and features. A key feature is an RF Power control on the front panel to adjust the RF output power (and current draw) down by -5dB (medium power) and -10dB (low power). They also include a PTT circuit for easy incorporation in a TV repeater. All of the amplifiers have a built-in driver amplifier and the overall gain is typically >50dB. They have sufficient gain to be driven directly by cable TV analog modulators or Hi-Des DVB-T modulators ([www.hides.com.tw](http://www.hides.com.tw)). All amplifiers are designed to operate on 12 Vdc. Go to our web site: [www.kh6htv.com](http://www.kh6htv.com) for detailed specification sheets, price list and over 60 application notes on amateur TV.

| Model  | Band  | Digital TV (rms avg) | Analog TV or SSB (peak) | Saturated (FM-CW) | Gain  | Current @13.8Vdc |
|--------|-------|----------------------|-------------------------|-------------------|-------|------------------|
| 70-9B  | 70 cm | 10 W                 | 25 W pep                | 60 W              | 53 dB | 10 A             |
| 70-12C | 70 cm | 6 W                  | 15 W pep                | 40 W              | 53 dB | 4.8 A            |
| 70-7B  | 70 cm | 3 W                  | 10 W pep                | 20 W              | 50 dB | 3 A              |
| 33-3B  | 33 cm | 6 W                  | 20 W pep                | 50 W              | 50 dB | 10 A             |
| 33-1A  | 33 cm | 3 W                  | 6 W pep                 | 20 W              | 42 dB | 2 A              |
| 23-11A | 23 cm | 4.5 W                | 15 W pep                | 30 W              | 50 dB | 7 A              |