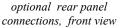


## Model 23-12A 23 cm, 50 dB, 15/10/2 Watt RF LINEAR POWER AMPLIFIER









optional rear panel connections

The KH6HTV-VIDEO Model 23-12A, RF Power Amplifier is for use in the amateur radio 23 cm band. It is a Class A-B amplifier designed for linear service. It can produce a 2 Watt, high-definition (1080P), digital TV (DTV) signal. It can also be used to produce an 10 Watt (pep), analog TV or SSB signal, or 15 Watts for FM/CW service. For DTV service with it's low DC current draw of only 1.0 Amp at 13.8 Vdc, it is ideal for in the field battery operations, such as for ARES emergency operations. With it's heat sink and fan it is rated for 100% duty cycle.

PARAMETER	Typical Performance	Notes
Output Power (Digital TV)	2 Watts, +33 dBm	average power
Output Power (analog TVor SSB)	10 Watts PEP, +40 dBm	peak power on sync tips
Output Power (FM, CW)	15 Watts, +42 dBm	saturated output
Output Power (-1 dB comp)	12 Watts, +41 dBm	
Output Power (-1/2 dB comp)	10 Watts, +40 dBm	
RF Power Amplifier Gain	50 dB, nominal	
Amplifier Gain Flatness	$\pm 0.5 \text{ dB}$	1240 - 1300 MHz
Gain Band-Width	150 MHz	-3dB
Amplifier Max Input Power	10 mW, 10 dBm	
Spectrum Regrowth (Digital TV)	-30 dB at +33 dBm (2 Watts)	-37 dB at 1W, -42 dB at 1/2W
LSB Rejection (analog VUSB)	better than -20 dB	at 10 W peak sync
Duty Cycle	100 %	
DC Supply Voltage	13.8 Vdc	10 to 15 Vdc
DC Current	1.0 Amp (2W DTV), 0.6A idle	@ 13.8Vdc
	2.5 Amps (15W FM/CW)	
RF Connectors	SMA input & N output	
Dimensions & Weight	4.2" x 3.5" x 7.4"	1.5 lbs
Accessories Included	instruction manual & test report	

Note 1 - Rear panel connectors option available. No extra cost.

KH6HTV-VIDEO Boulder, CO USA <a href="https://www.kh6htv.com">www.kh6htv.com</a> <a href="https://kh6htv.com">kh6htv.@arrl.net</a> 303-594-2547 <a href="https://www.kh6htv.com">NOTICE: This linear amplifier is not FCC type accepted. Therefore, the use of this amplifier is only legal in the USA, amateur radio, 23 cm band (1.24-1.3 GHz). Owners and operators of this amplifier must be licensed amateur radio operators.