



# RH6152-5000W

Designed to work with any HF radio transceivers, the RH6152 power amplifier delivers the most reliable radio communications for a wide range of operational applications.

With its strict precision design, the fully solid-state amplifier features the latest and most advanced technology, providing exceptional linearity, efficiency and operating dependability for HF radio voice and data communications.

The RH6152 is universal device providing automatic/manual configuration of its circuitry and gain depending of the input signal level. The RF Amplifier/Power Supply is a stand alone unit coming as one 19" rack.

## Technical specifications

<b>Frequency range:</b>	1.5-30 MHz
<b>Output Power:</b>	5000 W PEP and AVE 3 power levels : 5kW, 1.5kW and 500W
<b>Gain:</b>	49 dB
<b>Gain flatness in frequency range</b>	±1 dB
<b>Input power level</b>	18±3 dBm

<b>Intermodulation</b>	better than -32 dB (ref to any tone)	
<b>Non-harmonic components:</b>	better than - 70dB	
<b>Harmonic components:</b>	better than - 60dB is provided with 8-bands switchable filter at frequency bands: 1.5-2.2 MHz 2.2-3.2 MHz 3.2-4.6 MHz 4.6-6.7 MHz 6.7-9.8 MHz 9.8-14.2 MHz 14.2-20.6 MHz 20.6-30 MHz	
<b>Input/output impedance:</b>	50 Ω	
<b>Transmitter tune time</b>	< 1 s	
<b>VSWR</b>	2:1 - 5:1	
<b>Operation with unmatched load</b>	Nominal Power	
<b>(Power vs VSWR):</b>	60% of Nominal Power	2.5:1
	50% of Nominal Power	3.0:1
	40% of Nominal Power	4.0:1
	20% of Nominal Power	5.0:1
<b>Switching on time</b>	1 s	
<b>Tx/Rx switching time</b>	10 ms	
<b>Rx/Tx switching time</b>	10 ms	
<b>Switching between any harmonic filters</b>	10 ms	
<b>Cooling system:</b>	forced air cooling	
<b>Over heat protection:</b>	Cooling system automatic control, 2-level protection.	
<b>Primary Power:</b>	3 phase, 380 ± 10% VAC, 47 to 63Hz.	
<b>Power consumption:</b>	Less than 20 kW	
<b>Power factor</b>	> 0.85	
<b>Duty cycle:</b>	100% continuous, with forced air cooling	
<b>Operation temperature range</b>	-10 to +50 °C	
<b>Dimensions:</b>	600x600x1600 mm	
<b>Weight:</b>	< 300 kg	

**RH6152 provides the following controls and indications:**

- Input signal level indication.
- PTT status.
- Forward and reflected power levels.
- Critical Errors indication.
- Power supply voltage, current and PSU status indications.
- Power Combiner fault state.
- Fault indication for each Amplification Unit (1.5 kW).