



1kW UHF Digital

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- Active components are located on printed circuit boards for fast, easy field service.
- All of the metering and control circuitry is built with high precision components.
- Light emitting diodes (LEDs) give a quick, visual indication of the condition of the transmitter.
- The digital panel meters give highly accurate readings of the important voltages, currents, and powers associated with the final amplifier.
- High power components insure that the transmitter can survive adverse conditions.



Model	A1KST8U
Technical Specifications	
RF Output Power (Average)	1000 Watts
RF Frequency Range	UHF (470 - 862 MHz)
Output Impedance	50 Ohms
Output Connector	7/8 EIA (Others available on request)
Out of Band Emission	Meets or exceeds FCC Requirements
Digital SNR	Meets or exceeds ATSC recommendation
General Specifications	
Driver	LDMOS Amplifier
Output Stage	LDMOS Amplifier
Maximum Altitude	2,500 Meters (8,200 Feet)
Ambient Temperature Range	0° C to +40° C
Relative Humidity	0 to 95%, Non-Condensing
Primary Power	220 VAC, 50/60 Hz Nominal
Cooling	Forced Air
Dimensions (W x H x D):	24" x 48" x 30.75"
Weight	490 lbs
Power Consumption	<4.0 kVA Channel Dependent)
Heat Load @ Full Output (Typical)	8,000 BTU/Hr
Air Conditioning Requirements	Based on local environment; consult factory

The solid state final amplifier (PA) uses LDMOS or DMOS transistors for optimum linearity. This PA has an internal +50V power supply and self-contained protection against over-current, over-voltage and over-temperature, as well as, overall reflected power (SWR) protection. The combination of all of these protection features provides the user with a high level of "on-the-air" reliability.

This transmitter utilizes an auto correcting digital modulator/upconverter and a solid state driver amplifier.