HARRIS

ELECTRICAL / COOLING / MECHANICAL DATA
HARRIS ZX1000 1 kW FM TRANSMITTER

All table values referenced to 1000 W output power. Values are typical. PA only, does not include the exciter.

PARAMETER NAME	VALUE					
ELECTRICAL						
Nominal Output Power	1000 W (FM)					
	FM	FM+HD	HD			
FCC Type-notified Output Power Range	250 W - 1100 W	200 – 825 W	100 – 385 W			
Power Consumption (ref: 1000 W output in FM mode.)	1800 W Typical 2000 W Max					
AC Power Factor	0.98 Typical					
Overall Efficiency, AC Input to RF Output (ref: 1000 W output in FM mode.)	54% Typical					
AC Mains Configuration (one configuration, as ordered)	1-Phase + Neutral with GND			Split-Phase with GND or 1-Phase + Neutral with GND		
AC Input Voltage	115 VAC			230 VAC		
AC Fuse Size (Notes 1,2)	20A			20A		
Possible AC Conductor Size, #THHW wire (Note 3)	#10 AWG (5 mm²)			#10 AWG (5 mm²)		
	FM	FM+HD	HD	FM	FM+HD	HD
Line Amps at Nominal Output	18	16	10	9	8	5
AC Entrances	A 3-prong plug (IEC-C20), if manufactured after 1 / 2009, or a twist-lock connector (Hubble HBL2625), is provided on the rear of the transmitter cabinet. One mating cable-end connector is shipped with each transmitter.					
Grounding/earthing	A #10-32 threaded ground stud is provided on the rear of the transmitter cabinet near the AC mains connector. A flexible braided cable of tinned copper should be used to connect between the transmitter cabinet ground and the station RF earth ground. A #10 ring lug is to be *crimped and soldered* to the cable end that is to be connected to the transmitter ground stud. The connection to the station ground should first be bolted and then soldered or brazed for low resistance. The AC mains earth conductor should also be connected to the same earth ground.					
COOLING						
Cooling Air Volume, ft^3/min	300 cfm (8.5 cmm)					
Air Outlet Size	The air inlet is through a filtered 7" x 10" (17.8 cm x 25.4 cm) front panel grill. The exhaust air outlet is through a ventilated area on the rear of the transmitter enclosure. The air outlet is approximately 6 " x 12" (15.2 cm x 30.5 cm). One replacement inlet air filter is shipped with each transmitter.					
	FM	FM+HD	HD			
Heat Dissipation (BTU/H)	2850	3150	2600			
Air Conditioning Load (Tons)	0.24	0.26	0.22			
MECHANICAL (Note 4)						
Cabinet Size with fan and air filter assembly attached	19" (48.3 cm) W x 24.5" (62.22 cm) D x 8.75" (22.15 cm) H.					
Weight	65 lb (29.5 kg)					
Harmonic Filter	Internal.					
RF Output Connector	Type 'N', female.					
Remote Control Connections	Standard hardwired remote control interface is a 25-pin female 'D' connector. An optional remote web interface is available and utilizes an RJ45 connector. Both interfaces are located on the rear of the transmitter.					

NOTES:

1. At full output power. Fuse/breaker size should be reduced for significantly lower permanent operating power levels, maintaining a 2X factor above the normal operating current. Contact Harris salesman or factory for the expected value.
2. Wall-mounted fused disconnect or breaker is customer-supplied item. An RK5 class fuse such as the Bussman FRN-R (250V), FRS-R (600V) or LittleFuse FLNR (250V), FLSR (600V) is recommended. If a circuit breaker is used it should have a trip curve similar to that of the RK5 fuse trip curve.
3. All transmitter wiring should be done in conformance with the NEC and local electrical codes.
4. See Harris drawing 839-8464-031 for complete dimensional information.