



ELECTRICAL / COOLING / MECHANICAL DATA HARRIS DX10 - 10 kW AM TRANSMITTER

Unless otherwise noted, all table values referenced to 10kW output power + 100% sine tone modulation. Values are typical.

PARAMETER NAME	VALUE								
ELECTRICAL									
Nominal Carrier Output Power	10 kW								
FCC Type-notified Carrier Output Power Range	1 kW – 11 kW								
Max Modulation Factor	100%								
Max Asymmetrical Positive Peak Modulation Factor	145% at 10 kW carrier								
Power Consumption	17.4 kW at 10 kW carrier and 100% sine tone modulation								
AC Power Factor	0.98 (3-phase only)								
Overall Efficiency, AC Input to RF Output	86% Typical								
AC Mains Configuration (Note 5)	Single phase, 2-Wire or 3-Wire plus safety ground			Three phase, 3-Wire Closed Delta or WYE plus safety ground			Three phase 4-Wire WYE plus safety ground		
AC Input Voltage	208	230	240	208	230	240	380	400	415
AC Fuse Size (Notes 1,2)	150	125	125	70A	60A	60A	40A	40A	40A
Possible AC Conductor Size, #THHN wire (Note 3)	1/0	1	1	4	6	6	8	8	8
Line Amps at Nominal Output	108	100	97	51	46	44	28	26	25
AC Entrances	Front and rear corners of the left side cabinet top; Left side of the cabinet base near the power transformer.								
Grounding/earthing	Grounding block on the cabinet base near the rear left corner. Use 2 inch (5 cm) wide copper strap of .020 in (5 mm) thick soft copper.								
Recommended Automatic Voltage Regulator, if used	Due to the wide variance in site requirements, AC mains configurations and available options, please consult with the Harris factory for assistance in selecting the correct unit that will satisfy specific site and user requirements.								
COOLING									
	60Hz Mains					50Hz Mains			
Cooling Air Volume	1300 CFM (36.8 CMM)					900 CFM (25.5 CMM)			
RF Cabinet Air Outlet Size	PA section 21.3 in (54.1 cm) X 14.0 in (35.6 cm) PS section 17.5 in (44.5 cm) X 22.5 in (57.2 cm)								
Heat Dissipation	3,000Watts (10,300 BTUH)								
Air Conditioning Load	0.86 Tons								
MECHANICAL (Note 4)									
Cabinet Size	72 in (183 cm) W X 33 in (84 cm) D X 78 in (198 cm) H								
Weight	1,535 lbs (698 kg)								
RF Output Connector	1-5/8 in EIA flanged, Female with Bullet								
Remote Control Connections	Upper Front Area, PA (Center) Cabinet								

NOTES:

1. Specifications are at full output power.
2. Circuit breakers may be used, however wall-mounted fused disconnects are recommended for improved long term reliability especially in high current applications. The reaction time of these devices for current surge overloads should be slow, similar to Buss FRN or REN fuse types. These are customer-supplied items.
3. All transmitter wiring should be done in conformance with local electrical codes.
4. See Harris drawing 839-6208-264 for complete dimensional information.
5. The DX10 is not field configurable to/from 3 phase from/to single phase