

Product Family name of PowerStar

MW-50 (1972-77)

The original MW-50 was the first 50kw air cooled medium wave transmitter that used a PDM modulator by Harris. It was introduced in 1972 and was manufactured till 1977. It was in a battleship gray cabinet. The MW-50 had an F1099 Diode tube in the damper circuit. It used 4CX1500A tubes for both the Modulator driver and RF Driver sections. The modulator and the final PA tubes were 4CX35000C's. On the front panel the fault indicators were magnetic flag actuators. The main contactor in the Step Start panel was a stepper switch. An RF sample being used for Neutralization was taken directly from the plate of the final.

MW-50A (1977-1981)

The MW-50 was replaced with the MW-50A in 1977 and was manufactured till 1981. For the MW-50A a simple limiter called the ME-1 (Modulation Enhancer) was added as part of the standard product. The Diode tube was replaced with a solid state device consisting of a String of 18 matched discrete diodes.

MW-50B (1981-83)

The MW 50 B replaced the MW-50A in 1981. A new transformerless Audio input board was added and improvements were done in the feedback circuit. These changes provided for better audio performance and stability. The RF flag and overload board was changed to using LED indicators to replace the magnetic flags.

MW-50C (1983-1985)

Utility Lights and outlets were added to the design for easier maintenance

MW50C3 (1985-1991)

The modulator driver tube was replaced with a solid state audio driver Mosfet and the PDM generator and feedback circuitry was improved. These changes allowed almost unprecedented specifications of +/- 1 db audio response, IMD and THD of less than 2.4%, and squarewave overshoot of less than 3%.

