

AC-4 PSU. Transformer problem solved.

One of my AC-4 which has the “CIN-TRAN 112C” transformer was running very hot. Mains voltage is 230V 50 Hz. Transformer was saturated at 215V. At 230V current was 1.5A, (secondary was disconnected). This transformer has also a lower resistance over the primary compared to other models I have. So old schematic from Drake specifying it could operate at 240V 50 Hz must be incorrect. Transformer is designed for 60Hz.

Problem solved by installing a “buck-transformer” together with a “conversion-kit” to free space. I used what had in my junkbox, a 220/12V transformer. It turned out to work fine with the load from T-4XC, running cool and fine now.

