

This table shows the peak watts and average watts output from the PA1 or the PA2 when it is supplied with the DC voltage as shown in the table below. Because the amplifier under test is connected to a non-radiating dummy load (a 100 watt light bulb,) RF feedback problems generally do not occur. This allows modulation duty cycle adjustment to be accomplished without damage to the equipment.

Connect a test load consisting of a single 120 volt, 100 watt light bulb directly to the output of the PA1 or PA2 amplifier. DO NOT use a type LC31 coupler between the PA1 or PA2 and the light bulb. The connecting wires from the lamp socket to the output terminals of the PA1 or PA2 should be made from insulated wires twisted together with one turn about every one to two inches or 25 to 50 cm. The wires should be no more than 12 inches or 30 cm in length.

The DC amps shown in this table is approximate, and will vary slightly depending on the load on the amplifier and the particular characteristics of the 100 watt light bulb. The modulation duty cycle used for this table is 50% and the audio frequency is 5850 Hz modulated on a 3.1 MHz carrier. If the SSQ-2F is used to drive the PA1, then the SSQ-2F should be set in the 1X mode so it does not double the audio frequency. if the GB-4000 is used to drive the PA2, then set a frequency of 5850 Hz, RF mode on and GATE off on the GB-4000. audio frequencies between 2500 Hz to 8000 Hz may be used.

DC VOLTS	DC AMPS with 50% Duty Cycle	AVERAGE RF WATTS	PEAK RF WATTS
58	0.45	22	44
77	0.54	35	71
97	0.61	50	101
116	0.67	66	132
136	0.71	82	164
155	0.75	99	198
175	0.79	118	235
195	0.82	136	272