

Fixed Frequency Driver Specifications



Driver Model #	FFF-XX-B1-FY	FFF-XX-B2-FY
Frequency (MHz)	XX MHz (compatible with the AO device)	
Frequency Control	Quartz crystal referenced phase locked loop	
Frequency Accuracy (%)	0.015	
Harmonic Content (dBc)	≤ - 10	
Frequency Stability	0.0015% minimum after 15 minute warm-up	
Output Power (watt)	Power is optimized for peak efficiency with supplied A-O device.	
Output Protection	Power amplifiers used will tolerate an infinite V.S.W.R. without damage. Rated power is available only when a proper RF load is connected.	
Rise/Fall Time	To match AO Frequency Shifter requirements	
Modulation Type (optional)	Analog amplitude modulation	TTL compatible
Modulation Rate	To match AO Frequency Shifter requirements	
Modulation Input	50 Ω; 0-1 V	330 Ω; 0-5 V
Operating Power	90-240 VAC, 50-60 Hz, 55 watts max.	
Enclosure	The unit will be packaged in a 190 mm (7.5 inch) wide by 100 mm (4 inch) high by 220 mm (8.75 inch) deep instrument case. The rear panel heat sink increases the depth to 240 mm (9.75 inches) maximum. The size is exclusive of connectors. A detachable AC line cord and RF cable are provided.	
Environmental	Nominal Laboratory Conditions: The maximum temperature is +35° C. The unit is not sealed against moisture or condensing humidity.	



Variable Frequency Driver Specifications

Driver Model #	VFF-XX-YY-V-A-F2	
Frequency Range	Corresponding to the AO device requirements	
Tuning Voltage	0 - 10 V DC analog (tolerates -2 to +20 V DC)	
Frequency Accuracy	$\leq 1\%$ after 15 minute warm-up	
Scanning Speed	50 micro-sec. from min. to max. frequency with step change in tuning voltage	
Output Power	Power is optimized for peak efficiency with supplied AO device.	
Modulation Type (optional)	Analog amplitude modulation	TTL compatible
Modulation Input	50 Ω ; 0-1 V	330 Ω ; 0-5 V
Operating Power	90-240 VAC, 50-60 Hz	
Enclosure	The unit will be packaged in a 190 mm (7.5 inch) wide by 100 mm (4 inch) high by 220 mm (8.75 inch) deep instrument case. The rear panel heat sink increases the depth to 240 mm (9.75 inches) maximum. The size is exclusive of connectors. A detachable AC line cord and RF cable are provided.	
Environmental	Nominal Laboratory Conditions: The maximum temperature is +35° C. The unit is not sealed against moisture or condensing humidity.	