



FRANKONIA
EMC Test-Systems GmbH

RF-POWER AMPLIFIERS

1 GHz – 6 GHz

Technical Specifications	FLG-50AF	FLG-60AF
Frequency Range	1 GHz – 6 GHz	1 GHz – 6 GHz
Power Output @ Saturation	50 Watts min.	60 Watts min.
Power @ 1dB	30 Watts min.	50 Watts min.
Small Signal Gain	+48 dB min	+48 dB min
Gain Flatness	±5 dB max.	±5 dB max.
IP ₃	+52 dBm typ.	+52 dBm typ.
Input VSWR	2:1 max	2:1 max
Harmonics	-20 dBc typical @ 50 Watts	-20 dBc typical @ 50 Watts
Spurious Signals	< -60 dBc typical @ 50 Watts	< -60 dBc typical @ 50 Watts
Input/Output Impedance	50 Ohms nominal	50 Ohms nominal
AC Input Power	650 Watts max.	650 Watts max.
AC Input	110 – 240 VAC, single phase	110 – 240 VAC, single phase
Nominal RF Input	0 dBm (for full power)	0 dBm (for full power)
RF Input	+10 dBm max. (no damage)	+10 dBm max. (no damage)
RF Input Signal Format	CW/AM/FM/PM/Pulse	CW/AM/FM/PM/Pulse
Class of Operation	Class A	Class A
Dimensions* (H x W x D)	133 x 483 x 609 mm	133 x 483 x 609 mm
Weight	19 kg max.	19 kg max.
RF Connectors	Type-N female RF Input/Output	Type-N female RF Input/Output
Grounding	Chassis	Chassis
Cooling	Internal Forced Air	Internal Forced Air
Operating Temperature	0° C to +50° C	0° C to +50° C
Operating Humidity	95% Non-condensing	95% Non-condensing
Operating Altitude	Up to 10,000' Above Sea Level	Up to 10,000' Above Sea Level
Circuit protection	<ul style="list-style-type: none">▪ Thermal overload▪ Over Voltage▪ Over Current	<ul style="list-style-type: none">▪ Thermal overload▪ Over Voltage▪ Over Current

Specifications @ 25° C / Specifications subject to change without notice