

MODELS LA100UE, LA100UF, 7100LC, 717FC

100 Watt Broadband RF Power Amplifiers

Designed for applications in communications, EMC testing, NMR/MRI and general laboratory use.



Features

- Broad bandwidth
- Linear operation
- Low compression at rated power
- VSWR protection
- CE certified
- No band switching
- Rack mountable
- GPIB & RS232 option
- Blanking
- Remote capability
- RF gain control
- Automatic leveling (ALC)
- Safety interlock input
- Optional rear panel connectors
- RF power meter
- Rugged RF power MOSFET design

System Benefits

- Wide instantaneous bandwidth for sweep applications, pulse and CW operation
- Delivers rated power with low distortion
- Low RF leakage reduces possible interference with equipment in close proximity
- RF power sensors prevent overdrive and protect amplifier, and load, in high VSWR conditions
- Fully featured remote capability allows control and monitoring of *all* front panel functions

MODEL	LA100UE	LA100UF	7100LC	717FC
Power Output	100 Watts	100 Watts	100 Watts	100 Watts
Frequency Range	200-500 MHz	100-500 MHz	80-1000 MHz	200-1000 MHz
Power Gain	50 dB	50 dB	50 dB	50 dB
Gain Flatness	±2.5 dB (unleveled) ±0.5 dB (leveled)	±2.5 dB (unleveled) ±0.5 dB (leveled)	±2.5 dB (unleveled) ±1.0 dB (leveled)	±2.5 dB (unleveled) ±0.5 dB (leveled)
Gain Control	20 dB	20 dB	18 dB	15 dB
ALC	Yes	Yes	Yes	Yes
Class of Operation	'AB' Linear	'AB' Linear	'A' Linear	'A' Linear
Input/Output Impedance	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal	50 Ohm nominal
Input for Full Output	1-2 mW	1-2 mW	1 mW	1-2 mW
Spurious (maximum)	-70 dBc	-70 dBc	-60 dBc	-65 dBc
Harmonics (worst case)	-16 dBc	-16 dBc	-16 dBc	-16 dBc
Protection	Temp, VSWR	Temp, VSWR	Temp, VSWR	Temp, VSWR
Operating Temperature	-10 to 40° C	-10 to 40° C	-10 to 40° C	-10 to 40° C
Connectors	N Female	N Female	N Female	N Female
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Panel Meter	Fwd: 100 W; Refl: % limit	Fwd: 100 W; Refl: % limit	Fwd: 100 W; Refl: % limit	Fwd: 100 W; Refl: % limit
Indicators	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active	AC Line, Blanking, Meter, ALC, VSWR, Temp, Remote Active
Primary Power Requirements	90-255 VAC, 50/60 Hz	95-265 VAC, 50/60 Hz	97-255 VAC, 50/60 Hz	95-255 VAC, 50/60 Hz
Physical Dimensions H x W x D	7 x 19 x 18 in	7 x 19 x 18 in	7 x 19 x 21 in	7 x 19 x 21 in
Weight	32 lb, 14.5 kg	32 lb, 14.5 kg	50 lb, 22.7 kg	50 lb, 22.7 kg