FLX 1300

Broadband FM Amplifier 1300 W

- 1300 W in a lightweight and compact enclosure just two rack spaces high (3½" in. / 89 mm)
- All solid state
- Stainless steel cabinet finish
- Built-in, internal Surge Suppressor module
- Very high electrical efficiency
- Fast access to all functions, readings and adjustments via user-friendly menu on display
- USB & RS 485 PC connections
- Totally broadband amplifier w/ no tuning requirement
- SWR, Temperature and Parameters Overload Protection
- Proportional Auto-Foldback of output power in the event of excessive VSWR or overloads
- Full remote control & telemetry capability, with all main parameters on rear terminal DB 25
- Includes low pass/harmonic filter
- Meets or exceeds all FCC and CCIR requirements

• *General Specifications*

Frequency Range:
87.5 –108 MHz
Output PWR:
1300 W continuously variable
Required drive power (input power):
Approximately 20 W
Front panel size:
483mm (19") W x 89mm (3½") H (two rack spaces)
Cabinet Depth:
535mm (21¼") D + 35mm (1 ⅜") for front panel handles
Approximate Weight:
17 Kg / 37.5 lbs
Approximate Shipping box size:
686 mm x 543 mm x 188 mm (27" x 21 3/8" x 7 3/8")
Approximate Shipping Weight:
19.3 Kg / 42.5 lbs
Cabinet finish:
Stainless steel
AC Power requirement:
230V AC single phase (±15%), 50-60Hz
Power Consumption @ full PWR:
2100 W or less
Power Factor:
> 0.99 (unit has built-in PFC)

• *LCD Display Readings*

On front panel LCD Display:
Programmed Output Power;
Actual Forward Power;
Reflected Power;
Internal Voltage and Current Reading;
Drive (input) Power;
Temperature;
Alarms;
Status of User Settings
Preset Threshold Alarm (low RF power)

• *Environmental*

Storage temperature:
-20°C to + 60 °C
Operating temperature:
- 5°C to + 45 °C
Guaranteed performance temp:
0°C to +40°C
Relative humidity:
90 %
(non condensing)
Max operating altitude:
3000 m.
(others on request)
Max ambient field strength:
≤10 V/m; ≤ 4 A/m
Cooling:
Forced air (internal low noise blower)
Spurious & Harmonic Products:
Meets or exceeds EBU/ CCIR/FCC requirements.
Harmonics, typically better than:
-80dBc
Spurs, typically better than:
-98dBc

• *Connectors*

RF Output:
7/16" DIN female (7/8" EIA Flange upon request) / 50 Ω
RF Input :
"N" Female / 50 Ω
RF Monitor:
BNC -40dBc ±3dB (front panel)
[note: not suitable for measuring harmonics]
USB (front panel):
PC direct connection
RJ45 (rear panel) (x2):
RS 485 connections
DB 9 (rear panel):
Analog remote readings and remote control

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