RADIO

/fm/tv/digital/broadcasting/

ELETTRONIKA GROUP

DAT xF
FM Amplifiers

MAIN CHARACTERISTICS:

- Air cooling
- Very high efficiency
- Restrained dimensions and weight
- Multi-platform remote control
- USB controllable
- Temperature foldback
- Reflected Power foldback

DISPLAY READING:

- LDMOS Voltage/Current
- Output Power
- Input Power
- Reflected Power
- Temperature

PROTECTIONS AGAINST:

- Over Voltage
- Over Current
- Forward Power
- Reflected Power
- Overdrive

MODELS:

- 700W, 1500W, 3000W, 5000W

The FM amplifier line of the DATxF family was designed with great care for consumption and bulk, oversizing all of the components: LDMOS, fans and power supply, thus expanding the redundance concept.

The active devices belong to the 6th generation of LDMOS, very robust and with high gain, allowing to create very compact amplifiers.

The switching power supply wide wide input range are tested to sustain network bursts up to 4kV. Greatly efficient, they assure a power factor close to one in any load condition.

The heat dissipation in high-power models (3 and 5kW) is performed by high-quality, very quiet fans.
The usage of a high-performance dissipator and the high efficiency of active devices allowed a remarkable decrease in weight, making transport and installation simpler.
Designed to assure high reliability if connected directly directly to an antenna system, these amplifiers are well-fit to a modular use in higher-power amplification systems.

Effective software algorithms protect the equipment from any cause of breakdown.
The output power is dinamically decreased to conservative values in case of environmental overheating or reflected power from the antenna system.
The loads of the internal combiners are sized sto to work indefinitely even in unbalancing conditions, thus granting a continuous service without interruptions.

A multi-function display allows to check at any moment all of the parameters of the amplifier and to adjust the output power.
All of the functions of these amplifiers are remotable through RS485 serial interface, or optionally through SNMP protocol or WEB SERVER.

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DAT xF
FM Amplifiers

Technical characteristics

MODELS	DAT1F	DAT2F	DAT4F	DAT8F
Output Power	700W	1500W	3000W	5000W
Nominal Input Power	8W	10W	20W	30W
Remote Control	RS485, USB	RS485, USB	RS485, USB	RS485, USB
Input Connector	N Female	N Female	N Female	N Female
Output Connector	7/16 Female	7/16 Female	EIA 7/8"	EIA 7/8"
Power Supply Voltage	90-260V	90-260V	230V ±15% Other on request	3P+N 400V ±15% Other on request
Power Supply Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Consumption	1kVA	2.2kVA	4.7kVA	7.5kVA
Housing	2U	2U	4U	6U
Weight	13kg	13kg	30kg	45kg
Air Flow	180m^3/h	180m^3/h	600m^3/h	600m^3/h
Temperature	-5°C to +45° C	-5°C to +45° C	-5°C to +45° C	-5°C to +45° C

Specifications and characteristics are subject to change without notice Rev.5/5.12

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