



High Power FM Amplifiers

MAIN CHARACTERISTICS:

- Air cooling
- Very high efficiency
- Restrained dimensions and weight
- Multi-platform remote control

DISPLAY READING:

- MOSFET Voltages/Currents
- Output Power
- Input Power
- Reflected Power
- Temperature

PROTECTIONS AGAINST:

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

MODELS:

- 5,5kW, 8,5kW, 10kW, 15kW, 20kW

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 redundancy concept.

For each fundamental element there are at least two components.

The amplifier is built by connecting in parallel 3kW or 5kW modules.

Each of these modules is completely independent, so that it can be used in standalone mode in emergencies or for network reconfigurations.

The heat dissipation 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.

Effective software algorithms protect the equipment from any cause of breakdown.

The output power is dynamically decreased to conservative values in case of environmental overheating or reflected power from the antenna system.

The loads of the internal combiners are sized so to work indefinitely even in unbalancing conditions, thus granting a continuous service without interruptions.

The central control unit of the device oversees all of the general parameters and those of the individual amplifier modules. It allows remote control by means of a serial connection through the WEB SERVER or SNMP (optional) interface. In the DUAL DRIVER version directly controls the exciters, manages the switch of the coaxial relay and distributes the base band signals.

MODELS	DAT-2X4F	DAT-2X8F	DAT-3X8F	DAT-4X8F
Output Power	5,5kW	10kW	15kW	20kW
Nominal Input Power	30W	60W	90W	120W
Remote Control	RS485, USB	RS485, USB	RS485, USB	RS485, USB
Input Connector	N Female	N Female	N Female	N Female
Output Connector	1"+ 5/8"	1"+ 5/8"	1"+ 5/8"	3"+1/8"
Power Supply Voltage	400V \pm 15%	400V \pm 15%	400V \pm 15%	400V \pm 15%
Power Supply Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Consumption	8,8kVA	16,8kVA	24,2kVA	32kVA
Housing	28U	28U	42U	42U
Weight	220kg	260kg	350kg	450kg
Air Flow	1500m ³ /h	3000m ³ /h	3000m ³ /h	4000m 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.4/7.11