



GOLIATH **550W FM AMPLIFIER**

OVERVIEW

Goliath 19" - 3U is a 500 W broadcasting amplifier. Goliath weighs only 15 kg.

Its design, based on the coupling of two 300 W independently powered radio frequency units provides a total security.

Remote control and remote monitoring cards can be added and plugged directly into the back of the amplifier at any time.

Its LCD screen display mounted on the front panel displays the direct power, reflected power, the presence of events and the software version.

As with the Helios, the last 200 hundred events are memorized, time-stamped and accessible (hyper terminal mode) at any time to the RS232 port located on the front panel.

Standard N type connectors are located on the rear panel; RF sample port (BNC type) in front.

The output power of this amplifier, fully protected against power surges, voltage peak and excessive temperature, is automatically slaved to the measured return power.

Complementary with E Creso Helios and Helios Jr Exciter, Goliath is also compatible with other types of exciters.

GoliathPlus module has the same technical features as the Goliath.

Very compact (19" - 3 U) it includes a Wilkinson coupler. Coupled with Goliath, it power out puts 1 kW all in 6 U only (without exciter)!

FEATURES

- Stainless steel compact module 3U - 19"
 - 15 kg (33 lbs) Goliath
 - 17 kg (37.4 lbs) GoliathPlus
- Simple and user friendly configuration via LCD display screen, locally by RS232 or remotely with TCP/IP
- Redundant: two MOSFET amplifiers with their own power supply
- High efficiency > 50 % with the exciter
- Module «hyper» protected (V.S.W.R, temperature, overpressure, voltage peak, lightning etc...)
- Power loss, V.S.W.R., and overheating indicators
- Standard modules for the whole range : 550 W, 1, 2 and 3 kW
- Upgrading (remote control / remote signaling option, or TCP/IP)
- Controlled by RS232 local interface or TCP/IP distant mode
- Very Affordable Equipment
- Complies with EC, FCC and CCIR standards
- Exceptional manufacturing quality - Made in France
- 3 years guarantee

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Rear panel

TECHNICAL SPECIFICATIONS

LCD Display	
Forward power	value and bar-graph monitoring
Reflected power	value and bar-graph monitoring
V.S.W.R.	value
Defect detection	Yes
Software release display	Yes
HARDWARE DESCRIPTION	
Frequency range	87,5 MHz - 108 MHz
Power output	500 W (0/+10%)
Power consumption	940 W @ 500 W, 230 V - 50 Hz
Power supply	165 VAC - 265 VAC, 47 - 63 Hz
Input power	< 10 W
RF output connector	"N"
Harmonics rejection	> 70 dB H2
Operating temperature	0°C - 45°C / 41°F - 113°F
Cooling	Forced air
Size	19" - 3U 132 (H) x 480 (l) x 465 (L) mm 5.2" (H) x 19" (W) x 18.3 (L)
Weight	15 kg (33 lbs)

Communication	
Serial port	I/O Bus for remote control (RS232)
Options	
Remote control, with opto-coupling	RC
Remote monitoring of R.F. defects, V.S.W.R. and local or distant mode	RM
Digital remote control and remote monitoring	TN

ORDER INFORMATION

Standard versions	
TFE00010	GOLIATH - 550 W FM Amplifier (TC/TS upgradable)
TFE00011	GOLIATHPLUS - 550 W FM Amplifier with integrated coupler (TC/TS upgradable)

Ref: Goliath Amplifier - Datasheet 03/2010
Technical specifications are subject to change without prior notice