

# ETG3500

3500W ICEFET SOLID STATE FM TRANSMITTERS



**ELENOS**  
broadcast @xperience



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### GENERAL DATA

Output Nominal Power	3500W adjustable
Automatic power RF control	Stabilizes the output power value on the set value
Overall output power stability	+/-0,1 dB
Operating band	87,5 - 108 MHz
RS232/RS485	Yes
Points of measure	RF Sample-MPX Monitor
Displayed Parameters	More than 50 parameters displayed on a wide graphic OLED
Adjustments	From the frontal panel trough OLED /from PC
Microprocessor controlled	Yes
Power supply redundancy	Yes
Number of MOSFETs	12 BLF278
RF power stage technology	ICEFET & ECOSAVING
Number of power supplies	3
Dimensions: Rack units	4U
Dimensions: W - H - D	48,5 - 17,6 - 70 cm
Weight	43kg
Number of cooling fans in the amplifiers	6

### CONNECTORS

RF Output connector	7/8
RF Input connector (in power amplifier mode)	BNC
Input connectors LEFT & RIGHT	XLR female
Input connectors AES/EBU	XLR female
MPX Input connector	BNC female
SCA Connector	BNC female
Remote control connector	DB25 female
RS485/232 Connector	DB9 female

### PERFORMANCE AUDIO/STEREO CODER

AES/EBU Input Resolution	24bits
AES/EBU Input Sample Rate	32,44.1,48,96 KHz Automatically selected
L/R Audio input level	+15/-10 dBm for 75KHz standard deviation
L/R level adjustment	Soft adjust 0.1dBm steps from front panel
L/R Input Impedance	Selectable 10K - 600 $\Omega$
MPX audio input level	+15/-10 dBm for 75KHz standard deviation
MPX level adjustment	Soft adjust 0.1 dBm steps from front panel
MPX Input impedance	5K $\Omega$ selectable
SCA/RDS audio input level	0 dBm for 75KHz standard deviation
PILOT Amplitude adjustment	Soft adjust 0.05% steps from front panel
PILOT Phase adjustment	Soft adjust 0.01 degree steps from front panel
PILOT tone frequency	19 KHz
PILOT tone deviation	Soft adjust +/- 7.5 KHz
PILOT tone frequency stability	+/-1 Hz
19KHz Output	Yes
AES/EBU-Analog input automatic changeover	Yes
THD+N	<0.03% @ 1KHz
Pre-emphasis	0/25/50/75 microseconds +/-0.1dB
FM S/N MPX FCC	82 dB 20Hz - 23KHz - 50uS - ref @ 53KHz - RMS
FM S/N STEREO CCIR Weighted	72 dB Weight-ref@53KHz-Qpk
FM S/N STEREO CCIR Unweighted	72 dB Unweight-ref@53KHz-QPk
Stereo Crosstalk	-65 dB or better @ 1KHz

### PERFORMANCE EXCITER

PLL lock time	<10sec
Intermodulation distortion	<0.05% Measured with two of tones 1KHz & 1.3KHz, ratio 1:1 at 100% modulation
Frequency deviation	+/- 75 KHz 0.1dB steps adjustable
RF Frequency steps	10 KHz
Phase Response	0.1 degree from linear phase; 53kHz to 100kHz
Modulation Capability	+/-250 KHz

### INSTALLATION REQUIREMENTS

Power supply	230/400 Threephase-Singlephase Version 50-60Hz VAC
Power consumption (typical)	5.2KW
Power supply efficiency (typical)	67%Typ
Current Consumption @ 230VAC/single phase	23 Amp
Magneto-thermic capacity @ 230VAC/single phase	32 Amp
Conductor size @ 230VAC/single phase	10 sqrt.mm
Conductor size @ 230VAC/single phase	7 AWG
Current Consumption @ 230VAC/three phase	13 Amp
Magneto-thermic capacity @ 230VAC/three phase	20 Amp
Conductor size @ 230VAC/three phase	6 sqrt.mm
Conductor size @ 230VAC/three phase	9 AWG
Current Consumption @ 400VAC/three phase	8 Amp
Magneto-thermic capacity @ 400VAC/three phase	16 Amp
Conductor size @ 400VAC/three phase	4 sqrt.mm
Conductor size @ 400VAC/three phase	11 AWG

