



CTE 12kW FM Transmitter-Amplifier

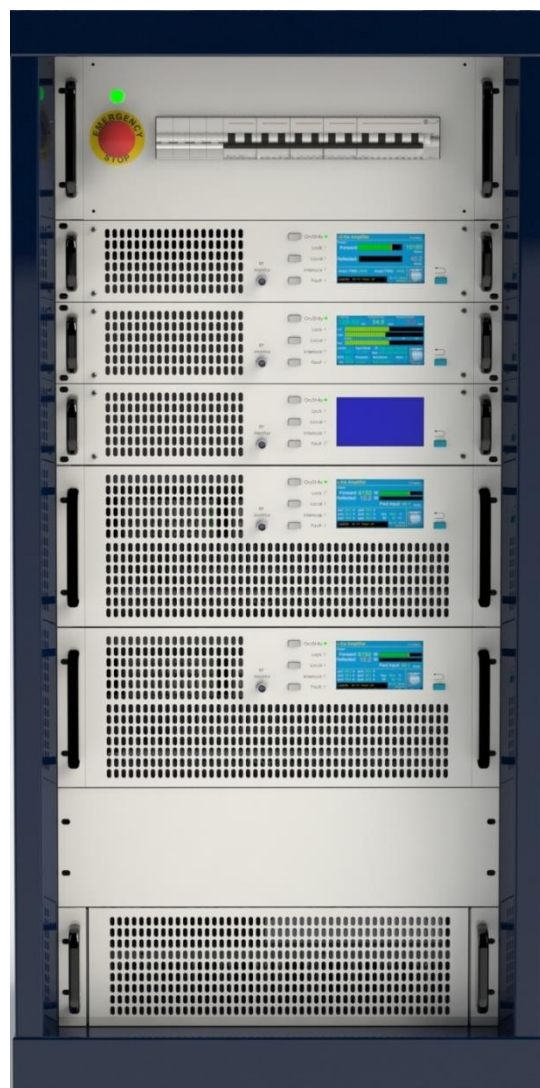
The new HTS are FM Transmitters-Amplifiers High Efficiency Touch Screen based on the last generation of RF Devices that greatly increases the total equipment efficiency and reliability reducing dimension and weight. The power supply modules are hot plug-in for an easy and fast service. The touch screen display grant an easy and fast access to all the setting and parameters.

The Main Features are :

- Highest efficiency (>85% RF section)
- Typical RF power 12000W
- Redundant Power Supply
- Very low signal noise typ. -80 dB
- High stereo performance typ. 60 dB
- Extremely low distortion 0,01%
- 6th Id-mos generation vswr 65:1
- Large LCD color display with touch panel
- CCIR & FCC compliant
- Web server and Mobile Interface

OPTI ONS

- Liquid cooled
- Hot Plug-in
- AES/EBU
- RDS /RBDS coder
- SNMP remote control
- OIR T and JPN version
- Audio OverIP
- DSP FM Modulator



Model	Description
TX12-HTS	12KW Stereo, MPX FM Transmitter, Touch Screen, WEB Remote Control
VL12-HTS	12KW FM Amplifier, Touch Screen, WEB Remote Control



Technical Data

ITEM	TX12-HTS
Nominal R.F. Output Power	10000 W (typ. 12000W) adjustable from front panel
Output Connector, Impedance	1+5/8" type , 50 Ohm
Dimensions HxWxD mm	W x 580 mm. D x 1050 mm. H x 1540 mm
Rack	Standard 19" 30U
Weight	250 Kg
Power Supply	200-400 VAC 50/60 HZ 3 phase
Power Factor	0,98
Operation Temperature	0°C to 45°C
Acoustic Noise	<56dB(A) @1 meter
Total Efficiency	>75%
RF Efficiency	>85%
Remote Control	WEB, SNMP, Parallel AI/O, Parallel Frequency Set, RS 232 – PC connection
Compliances	CE 99/05 R&TTE requirements

FREQUENCY		Digital Input	
Operating frequency range	FM 87.5 to 108 MHz	AES/EBU	XLR female connector, optical TOS Link
Setting	10kHz steps	Level	-20 to 0 dBfs
Generation	PLL; Direct to Channel (DPS)	Design Data	
Output frequency stability	± 1ppm from -5° +45°	Type	Solid state. DSP
Reference (internal)	VCTCXO 10 MHz	Pre –emphasis	Flat or 75 or 50 µs
Reference (external)	10MHz and 1pps ,(DSP only)	Audio frequency response	
Nominal deviation	± 75 KHz, (capability 150KHz)	Separation	> 55 dB
Harmonics suppression	< - 85 dBc	Modulation Type	Meets CE 99/05 + R&TTE
Spurious Emission	< - 80 dBc	Standard Compliance	
S/N RATIO (weighted)	> 80 dB (>84dB DSP)	Radio spectrum	ETS 302-018
THD	<0,10%	EMC	ETS 301-489
VSWR	1,5:1 with auto foldback	Safety	EN 60950 - EN 60215
RF Monitor	BNC connector R.F. – 70 dBc	Temperature	
Mono MXP Operation		Operating range	0° to 45°C
Mono/MPX Impedance	600 Ohm or 10 KOhm XLR female Connector	Storage range	- 10° to 55°C
Mono Level	-6 dBm + 12 dBm	Maximum relative Humidity	90% non condensing
MPX Level	- 6 dBm +12 dBm	Max Operating Altitude	2500 mt. a.s.l.
Audio Filter Response	> 45 dB (19 KHz to 100 KHz)	RDS Coder	
THD	< 0,01% @400Hz	Type	Static and Dynamic
RDS and SCA Impedance	10 KOhm unbal., BNC		
Audio Presence Detector adjustable time from front panel			
Stereo Operation			
Left, and Right Impedance	600 Ohm bal. or 10 KOhm balanced XLR female		
Left, Right Level	- 6 to + 12		
Stereo separation	> 50 dB		
THD on Encoded channels	< 0,01 %@400Hz		
Suppression of 38 KHz	> 50 dB		
Spurious outside band	According to ETSI specification		
Pilot Frequency	19 KHz ± 1 Hz		
Audio Presence Detector adjustable time from front panel			