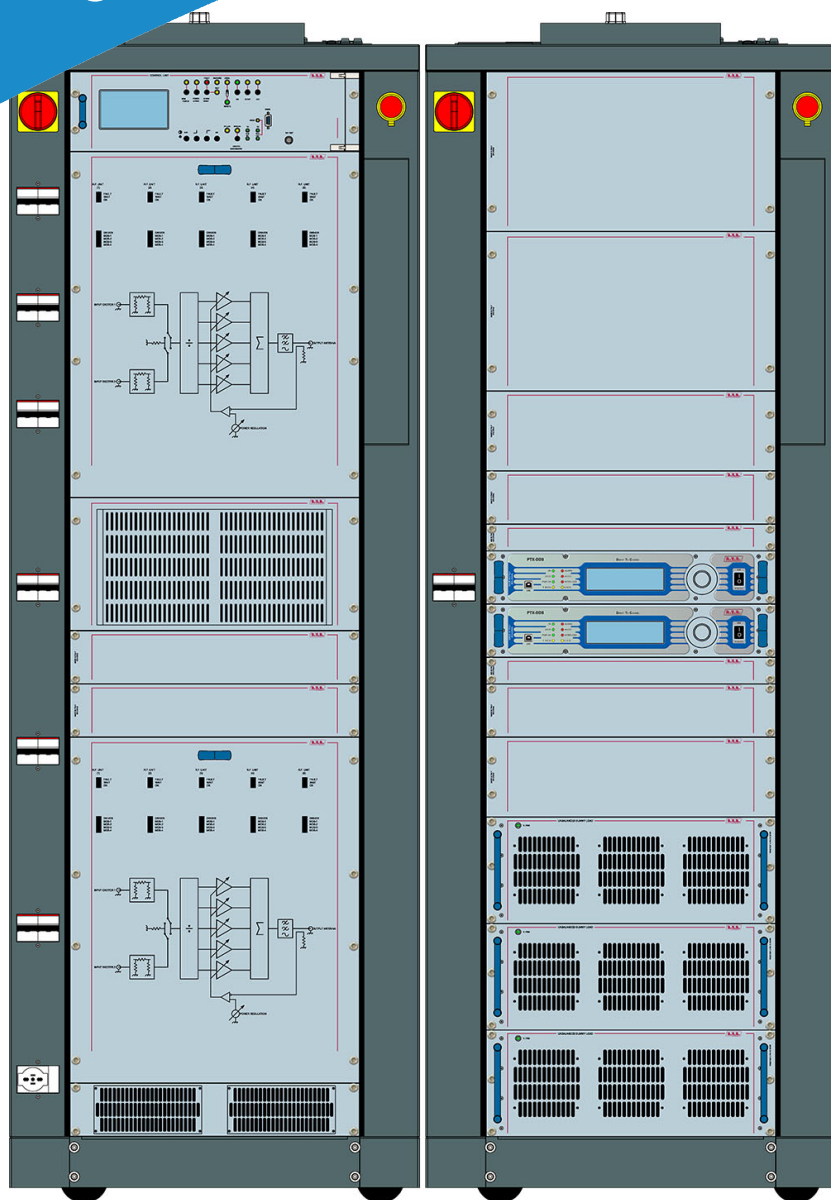


solid state transmitter

> *Plug-in Compact series*

TX25K PLUG-IN CA



TX25K front view

Caratteristiche

- > Sintonizzabile su tutta la banda FM (87.5 - 108 MHz), senza messa a punto.
- > Efficienza complessiva migliore del 72-74%.
- > Moduli amplificatori di potenza di tipo hot-plug e a banda larga.
- > Ogni modulo include un alimentatore switching che regola e stabilizza la tensione di alimentazione.
- > Ogni modulo amplificatore offre la funzione di Controllo della Potenza Automatica.
- > Adatto per trasmissioni in banda larga sia stereo che mono.
- > Protezione contro alto ROS, sovrapiotaggio, sovracorrente e sovratemperatura.
- > Conformità alle norme di sicurezza IEC.
- > Conformità agli standard ETSI - CCIR - FCC.
- > Tutto il trasmettitore può essere disattivato tramite un pulsante di emergenza.
- > Alta ridondanza garantita da 10 moduli di potenza di 2,5 kW di potenza RF.
- > Tutte le misure ed i parametri di lavoro vengono visualizzati sul pannello frontale.
- > Controllabile da remoto attraverso il sistema di telemetria.
- > Progettato per funzionamento no-stop 24/7.
- > Il trasmettitore comprende un sistema integrato per la commutazione automatica e manuale tra due eccitatori. In modalità automatica lo scambio si attiva quando la potenza attiva di eccitazione scende al di sotto dei 3dB.
- > Disponibili 24 unità libere per apparati aggiuntivi
- > L'uscita dell'aria è disponibile sul tetto del trasmettitore mediante tubi di acciaio



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solid state transmitter

Features

- > Tunable over entire FM band (87.5 – 108 MHz), without tuning.
- > Overall efficiency better than 72-74%.
- > Hot-pluggable and broadband power amplifier modules.
- > Each module features switching mode power supply to control and stabilize power supply voltage.
- > Each amplifier module provides Automatic Power Control.
- > Suitable for mono & stereo broadcast operations.
- > Protection against high VSWR, overdrive, overcurrent and overtemperature.
- > Compliance to IEC safety standards.
- > Compliance to ETSI – CCIR – FCC standards.
- > Entire transmitter can be switched off through an emergency button.
- > High redundancy guaranteed by 10 power modules of 2.5 kW RF power.
- > All measurement and working parameters are displayed on front panel.
- > Remotely controllable by telemetry system.
- > Design for 24/7 non-stop operation.
- > The transmitter include an integrated system for automatic and manual switching between two exciters. In Automatic mode the changeover is activated when active power of exciter falls below 3dB.
- > 24 free units available for additional equipment
- > The air outlet is available on the top of the transmitter using steel pipes

solid state
amplifiers

solid state transmitter

Technical specifications

Parameters		Values
GENERALS		
RF Output Power		26.25 kW
Frequency Range		87.5 - 108 MHz
Driver power for rated output		20 - 25 W
RF Output Impedance		50 Ω
RF Output Connector		3-1/8" EIA Flange
Overall efficiency		Typically > 72-74 %
VSWR		1.4:1 with automatic fold-back at higher VSWR
Asynchronous AM S/N Ratio		Typically >70dB
Synchronous AM S/N Ratio		Typically > 55dB
Harmonics suppression and Spurious		Typically < 85dB
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements
RF Spurious		Exceeds ETSI/CCIR/FCC requirements
Environmental working conditions		-10 °C to +50 °C / 95% relative humidity non condensing
Frequency Stability		± 1 ppm
Nominal Frequency Deviation		± 75 KHz (peak)
Maximum Frequency Deviation		± 150 KHz (peak)
Class of Emission		180KF8E Direct to Channel
Modulation Mode		Mono, Stereo, Multiplex
Stereo transmissions		Ace. to ITU-R / Ree. 450 (Pilot tone)
Pre-emphasis Mode		0/50 (CCIR) μ s, 75 (FCC) μ s
Analogue Input level { ± 75 Khz (peak) deviation }		-12.5 dBu - +12.5 dBu (adjustable)
Digital Input level { ± 75 Khz (peak) deviation }		-20.0 dBFS - 0 dBFS (adjustable)
POWER REQUIREMENTS		
AC power input	AC supply voltage	400V $\pm 10\%$ AC Three-Phase 3F+N 230V $\pm 10\%$ AC Three-Phase 3F+N
	Active power consumption	from 36,4 kW to 35,4 kW
	Overall efficiency	Typically > 72-74 %
	Power factor	> 0.95
	Connector	Terminal Block Standard
MECHANICAL DIMENSIONS		
Physical dimensions mm (WxHxD)	W x H x D	1370 x 1910 x 1150
Cooling		Forced, with internal fan
Acoustic Noise		< 75 dBA
Weight		about 780 Kg
MONO OPERATION		
S/N ratio		Typically > 83dB
Total Harmonic Distortion + Noise		Typically < 0.03%
Inter Modulation Distortion SMPTE		Typically < 0.02%
Frequency Response		Typically ± 0.2 dB
Audio Input Impedance		600 Ω or 10 k Ω
MPX OPERATION		
Composite S/N ratio		Typically > 80dB
Total Harmonic Distortion + Noise		Typically < 0.05%
Inter Modulation Distortion		Typically < 0.05%
Frequency Response		Typically ± 0.2 dB
Audio Input Impedance		10 k Ω
STEREO OPERATION		
Stereo FM S/N Ratio		Typically > 83dB
Total Harmonic Distortion + Noise (L or R)		Typically < 0.02%
Inter Modulation Distortion SMPTE (L or R)		Typically < 0.02%
Frequency response (L or R)		Typically ± 0.2 dB
Linear Cross Talk		Typically > 50dB
Non-linear Cross Talk		Typically > 50dB
Stereo Separation (Sine Wave)		Typically > 70dB
Audio Input Impedance		600 Ω or 10 k Ω
Digital Input Impedance		110 Ω

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice.
These are general specifications. They show typical values and are subject to change without notice.

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