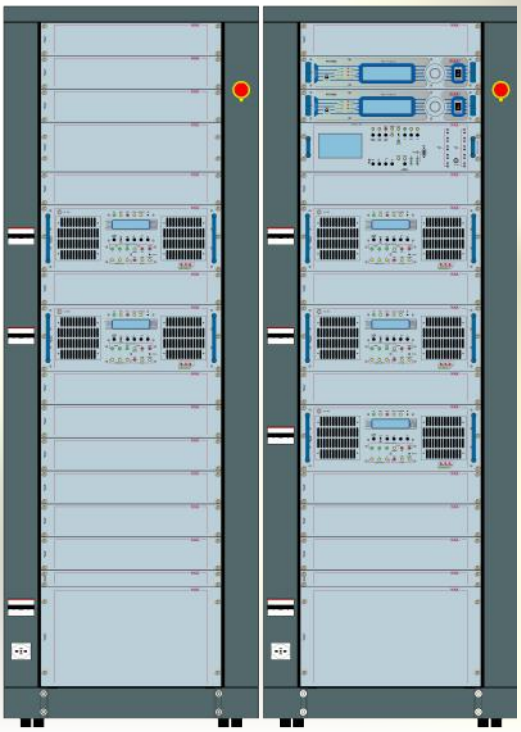
TX-K-KLC SERIES

TX-K-KLC

MODEL TX25K-KLC



ORDERING INFORMATION

Model	Description
TX25K-KLC	**25.000W** Liquid cooled system.
TX25KSS/20D215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + 2x PTX30LCD/S).
TX25KSS/41D215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + 2x PTX30LCDDSP).
TX25KSS/60D215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + 2x PTX30DDS).
TX25KSS/20S215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + PTX30LCD/S).
TX25KSS/41S215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + PTX30LCDDSP).
TX25KSS/60S215J	Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + PTX30DDS).

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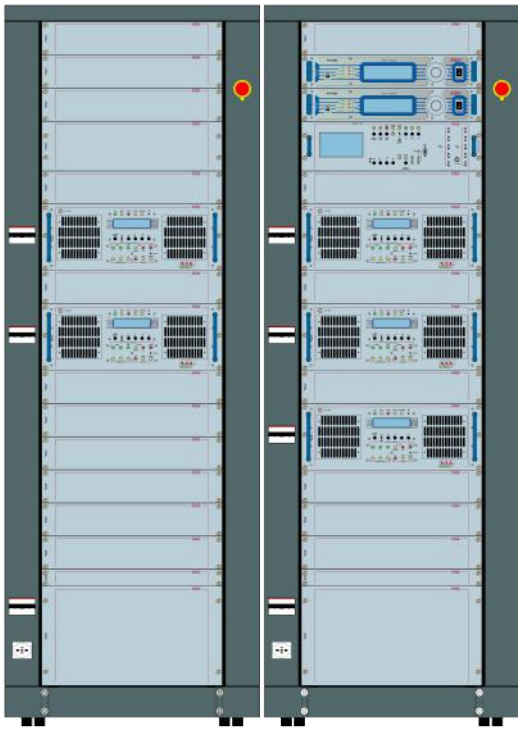

TX25KSS/60D215J

Modular transmitter, 25kW (composed of HC-CCU + 5x PJ5000U-KLC + 2x PTX30DDS).

FEATURES

HARDWARE FEATURES: Maximum modularity and scalability of the system from economical compositions "single exciter" to redundant custom compositions "double exciter".

POWER & QUALITY: With the family of RVR's liquid transmitters based on the U-KLC series, is possible to realize compact equipments up to 20kW, with high energy savings thanks to the use of high efficiency pumps and no forcing ventilation. The Cooling system is with low pressure circuit and double pump in automatic switching and diagnostics.

RELIABILITY & REDUNDANCY (business continuity): Extremely safe operation: by pressing the emergency button is cutting the power supply line to the various relay switches while remaining exciters operational.

USER-FRIENDLY FEATURES: user-friendly software and a simple, intuitive HM interface let you easily set up and control all machine operating parameters. user-friendly software and a simple, intuitive HM interface let you easily set up and control all machine operating parameters.

EASE OF MAINTENANCE: accessibility and ease of maintenance are ensured by advanced modular engineering concepts incorporated in the transmitter and by its lightweight components. Better cleaner work environment and low environmental noise.

REMOTE CONTROL: the device comes with a powerful, complete telemetry system.

TX25KSS/60D215J

Parameters	U.M.	Value	Notes
GENERALS			
RF Output power	kW	25	
Frequency range		87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Frequency stability	ppm	±1	
Nominal frequency deviation		±75 KHz (peak)	
Maximum frequency deviation		±100 KHz (peak)	
Class of emission		180KF8E	
Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
RF output impedance		50 Ω, Unbalanced	
RF output connector		3-1/8" EIA Flange	
VSWR		1.41:1 with automatic fold-back at higher VSWR	
Frequency control		Synthesizer µ processor control	
Modulation capability		±150 KHz	
Modulation mode		Mono, Stereo, Multiplex, SCA, RDS, DARC, Aux	
Pre-emphasis Mode		0/50 (CCIR) µs, 75 (FCC) µs	
Asynchronous AM S/N Ratio		≥ 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis and without FM modulation	
Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 µs Pre-emphasis with FM modulation at 75 KHz of deviation	
Harmonics suppression and Spurious	dB	Typically 85	
Overall efficiency	%	Typically 70/72	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Max Frequency Tolerance		As per ITU (R)	
Analogue Input Level ±75 Khz (peak) deviation		-6 dBu - +6 dBu at 1 Khz, 0 dBu	
Digital Input Level ±75 Khz (peak) deviation		-20.0 dBFS – 0 dBFS (adjustable) at 1 Khz	
MONO OPERATION			
S/N ratio		> 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unweighted	
Total Harmonic Distortion + Noise	%	Better than 0.15	
Inter Modulation Distortion SMPTE		Better than 0.20% (60 Hz / 7 KHz, 4:1, +4	
Frequency Response		±0.2dB (30Hz – 15Khz)	
Audio Input Impedance		600 Ω balanced or 10 kΩ unbalanced	
MPX OPERATION			
S/N ratio		>90 dB, 75 KHz deviation rmd, unweight	
Total Harmonic Distortion + Noise	%	<0.02%	
Inter Modulation Distortion SMPTE		<0.02% 60 hz / 7 khz, 4:1, +4dbu	
Frequency Response		±0.3dB, 30 Hz to 100 KHz	
Transient Intermodulation Distortion		0.03%, 2.96 KHz square wav end 14 KHzsine wave	
STEREO OPERATION			
Audio Input Impedance		2 K ohm or more	
Stereo FM S/N Ratio unweighted		>84 dB, 30 Hz to 15 KHz deviation (L or R), rms	
Stereo Separation ((Sine wave))		≥ 60 dB (30 Hz – 15 KHz)	
Linear Cross Talk		Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz)	
Non-linear Cross Talk		Better than 50 dB, referred to 100% modulation	
Total Harmonic Distortion + Noise (L or R)		<0.02%, 60 Hz / 7 KHz, 4:1, +4dBu	
Inter Modulation Distortion SMPTE (L or R)		±0.2 dB, 30 Hz – 15 Khz	
Digital Input Impedance		110 Ω	

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