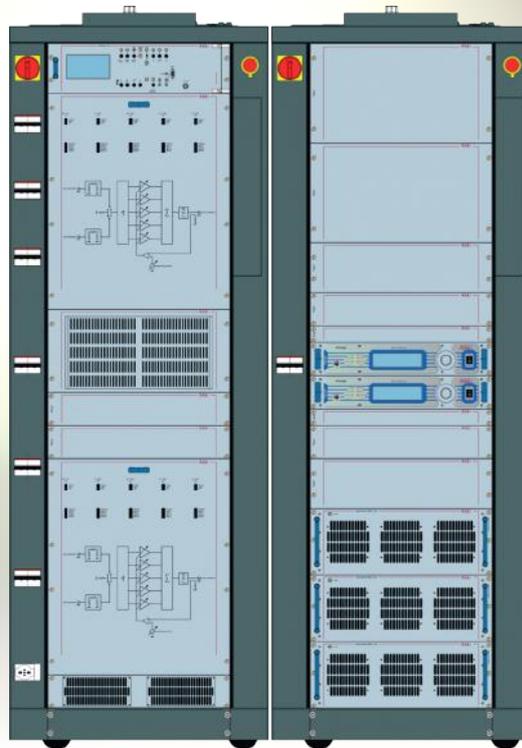


TX-KSS SERIES

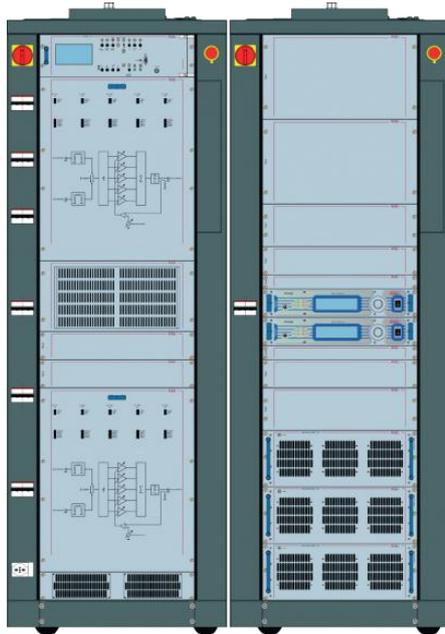
TX-PLUG-IN

MODEL **TX20KSS**



ORDERING INFORMATION

Model	Description
TX20KSS	20.000W PLUG-IN system.
TX20KSS/03D412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + 2x TEX100LCD/S).
TX20KSS/25D412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + 2x PTX100LCD/S).
TX20KSS/43D412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + 2x PTX100LCDDSP).
TX20KSS/61D412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + 2x PTX100DDS).
TX20KSS/03S412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + TEX100LCD/S).
TX20KSS/25S412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + PTX100LCD/S).
TX20KSS/43S412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + PTX100LCDDSP).
TX20KSS/61S412	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + PTX100DDS).



TX20KSS/61D412

Plug-in transmitter, 20kW
(composed of PJ20KPS-CA + 2x PTX30DDS).

FEATURES

- Tunable over entire FM band (87.5 – 108 MHz), without tuning.
- Overall efficiency better than 70%.
- 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 3 power modules of 2.2 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.

TX20KSS/61D412

Parameters	U.M.	Value	Notes
GENERALS			
RF Output Power	kW	21	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	± 1	
Driver power for rated output	W	20 - 25	
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)	
RF Output Impedance	Ω	50	
RF Output Connector		3-1/8" EIA Flange	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Pre-emphasis Mode		0/50 (CCIR) μs,75 (FCC) μs	
Asynchronous AM S/N Ratio	dB	Typically >70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically <85	
Overall efficiency	%	Typically > 72-74	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
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 supply voltage		400V ±10% AC Three-Phase 3F-N 230V ±10% AC Three-Phase 3F-N	
Active power consumption		From 29,1 kW to 28,3 kW	
AC power input			
Overall efficiency	%	Typically > 72-74	
Power factor	dB	> 0,95	
Connector		Terminal Block Standard	
MECHANICAL DIMENSIONS			
Physical dimensions mm (WxHxD)		1370 x 1910 x 1150	
Cooling		Forced, with internal fan	
Acoustic Noise	dba	<75	
Weight	Kg	About 770	
MONO OPERATION			
S/N ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise	%	Typically <0,03	
Inter Modulation Distortion SMPTE	%	Typically <0,02	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance		600 Ω or 10 kΩ	
MPX OPERATION			
Composite S/N ratio	dB	Typically > 80	
Total Harmonic Distortion + Noise	%	Typically <0,05	
Inter Modulation Distortion	%	Typically <0,05	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance	kΩ	10	
STEREO OPERATION			
Stereo FM S/N Ratio	dB	Typically > 83	
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)	dB	Typically ±0,2	
Linear Cross Talk	dB	Typically > 50	
Non-linear Cross Talk	dB	Typically > 50	
Stereo Separation (Sine Wave)	dB	Typically > 70	
Audio Input Impedance		600 Ω or 10 kΩ	
Digital Input Impedance	Ω	110	

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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