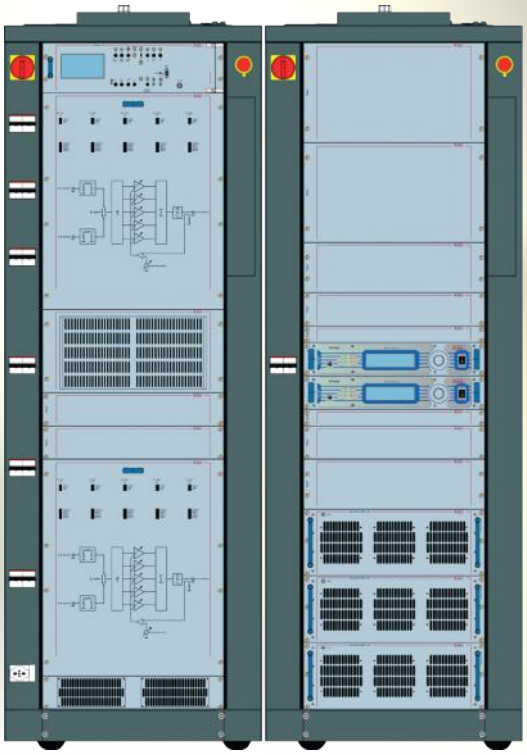
TX-KSS SERIES

TX-PLUG-IN

MODEL TX25KSS

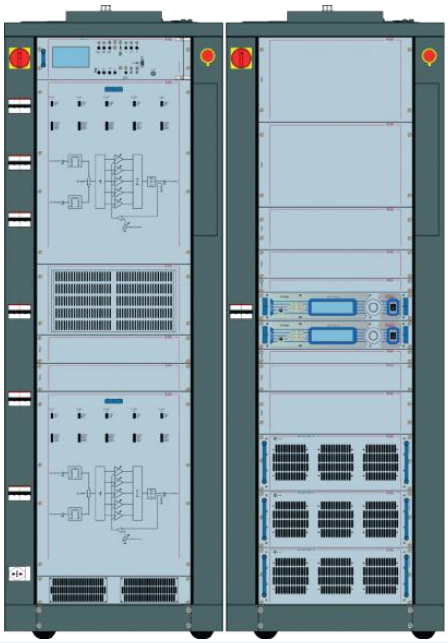


ORDERING INFORMATION

Model	Description
TX25KSS	**25.000W** PLUG-IN system.
TX25KSS/00D451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + 2x BLUES30NV).
TX25KSS/01D451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + 2x TEX30LCD/S).
TX25KSS/20D451	Plug-in transmitter, 20kW (composed of PJ20KPS-CA + 2x PTX30LCD/S).
TX25KSS/41D451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + 2x PTX30LCDDSP).
TX25KSS/60D451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + 2x PTX30DDS).
TX25KSS/00S451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + BLUES30NV).
TX25KSS/01S451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + TEX30LCD/S).
TX25KSS/20S451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + PTX30LCD/S).
TX25KSS/41S451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + PTX30LCDDSP).
TX25KSS/60S451	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + PTX30DDS).

R.V.R. Elettronica S.r.l.
Via del Fonditore, 2/2c
40138 Bologna Italy

Phone +39 0516010506
Fax +39 0516011104
sales@rvr.it - www.rvr.it



TX25KSS/60D451

Plug-in transmitter, 25kW
(composed of PJ25KPS-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.

TX25KSS/60D451

Parameters		U.M.	Value	Notes
GENERALS				
RF Output Power		kW	26,25	
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 power input	AC supply voltage		400V ±10% AC Three-Phase 3F-N 230V ±10% AC Three-Phase 3F-N	
	Active power consumption		From 36,4 kW to 35,4 kW	
	Overall efficiency	%	Typically > 72-74	
	Power factor	dB	> 0,95	
	Connector		Terminal Block Standard	
MECHANICAL DIMENSIONS				
Phisical dimensions mm (WxHxD)			1370 x 1910 x 1150	
Cooling			Forced, with internal fan	
Acoustic Noise		dba	<75	
Weight		Kg	About 780	
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	

R.V.R. Elettronica S.r.l.
Via del Fonditore, 2/2c
40138 Bologna Italy

Phone +39 0516010506
Fax +39 0516011104
sales@rvr.it - www.rvr.it

R.V.R. Elettronica S.r.l.
Via del Fonditore 2/2 c
40138 Bologna - Italy
Phone +39 051 6010506
info@rvr.it

www.rvr.it