

# TX-KSS PLUG-IN NEXT GEN

MID/HIGH POWER HOT PLUG



from 4000W to 50000W

R.V.R. has opted to enhance the power supply feed within the Hot Plug-in Standard Series by developing the EPS (Extractable Power Supplies) features, employing a drawer system for hot-swappable power supplies, and incorporating an additional slot for N+1 PSU configuration.

In response to the growing demand for rapid maintenance, reduced downtime, and redundancy across various points in the transmitter, R.V.R. has decided to introduce a solution that allows for the integration of power supplies from different manufacturers. This flexibility accommodates client preferences, budgetary constraints, and operational requirements in specific Countries.

MODELS

TX04KSS

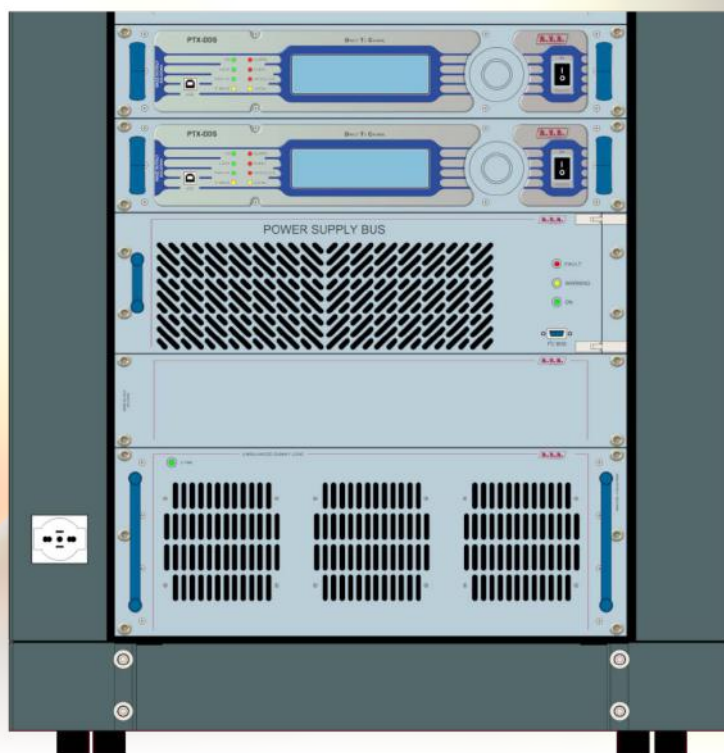
TX05KSS

TX06KSS

TX08KSS

TX10KSS

TX12.5KSS



Developed for the most demanding FM Radio Networks, this line of products has been conceived for all stations that needs to ensure broadcast continuity and simplify any maintenance operation. All hot pluggable transmitters exceed ETSI/CCIR/FCC standards on RF harmonics and spurious, performing high efficiency and ensuring the clients in investing in product with a high life span.

- Tunable over entire FM band (87.5 – 108 MHz), without tuning.
- Overall efficiency better than 71-73%.
- Hot-pluggable and broadband power amplifier modules.
- High redundancy guaranteed
- Each amplifier module provides Automatic Power Control.
- Each module has its own hot plug-in fans set.
- 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.
- 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.

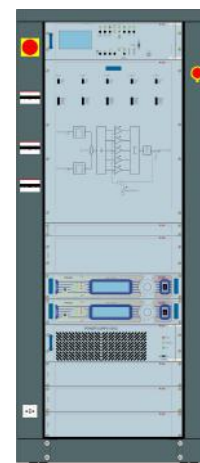
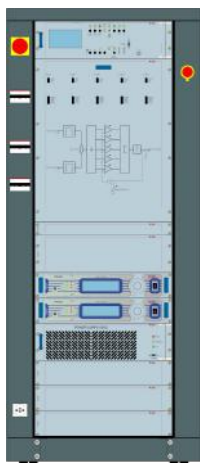


**EPS**

Switching Power supply for RF module.

Very easy to replace, even when the transmitter is on air.

- Each power supply "PS" can be removed or plugged without turning off the transmitter.
- The transmitter is capable of generating an output power with ample margin thanks to oversized power supplies.
- By installing an additional PS, the transmitter will operate at full power in the event of a single PS failure, eliminating the need for derating.
- Each PS features an automatic magnetic switch preventing short circuits and ensuring uninterrupted signal broadcasting.
- The power stream generated by these PS are distributed in parallel to all RF modules; consequently if one power supply fails all RF modules maintain balanced operation.
- The transmitter's CCU oversee continuously the operational status of each individual power supply.
- In the event of a failure the "ECM" electronic control module will optimize the transmitter efficiency.
- In an empty slot an additional power supply can be turned on so in the event of a power supply failure there will be no reduction in power. It is a N+1 pws system . Only from 4 to 10kW(option).



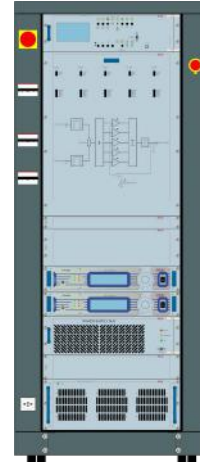
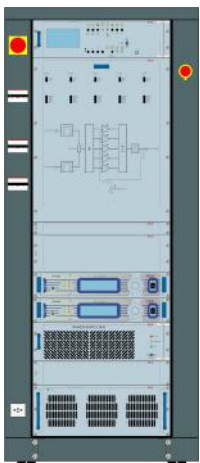
**TX06KSS/60D42/EPS**

Plug-in transmitter, 6kW  
(composed of PJ6KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



**TX08KSS/60D43/EPS**

Plug-in transmitter, 8kW  
(composed of PJ8KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



**TX10KSS/60D41/EPS**

Plug-in transmitter, 10kW  
(composed of PJ10KPS-CA +  
2x PTX30DDS) with EPS "Extractable  
Power Supplies.



**TX12.5KSS/60D41/EPS**

Plug-in transmitter, 12.5kW  
(composed of PJ12.5KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



**TX06KSS/60D42/EPS**

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		6kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
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	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 8350W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 260 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

**TX08KSS/60D43/EPS**

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		8kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
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	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 11.100W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 290 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

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.



**TX10KSS/60D41/EPS**

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		10kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
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	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 14.100W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 360 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

**TX12.5KSS/60D41/EPS**

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		12.5kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
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	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 17.200W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 380 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

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ORDERING INFORMATION	
Model	Description
<b>TX04KSS/60D44/EPS</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX06KSS/60D42/EPS</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX08KSS/60D43/EPS</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX10KSS/60D41/EPS</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX12.5KSS/60D41/EPS</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX04KSS/60S44/EPS</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX06KSS/60S42/EPS</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX08KSS/60S43/EPS</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX10KSS/60S41/EPS</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX12.5KSS/60S41/EPS</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".

OPTION	
<b>/N+1 PSL</b>	An additional power supply can be turned on so in the event of a power supply failure there will be no reduction in power.

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