



HF TRANSMITTER

JRS-900 series



JRS-913(1kW PEP)

JRS-953(5kW PEP)

JRS-914(10kW PEP)

FEATURES

- Digital pre-distortion (DPD) system-improved linearity with ultra low IMD
- Realize the low phase noise by the digital I/Q modulation excluded multiloop PLL
- Fully solid state design
- RF waveform processed in DSP and FPGA technology
- Power amplifier modules with rugged MOS-FET
- Perfect open- or short-circuit protection for output Load
- DSC (Digital Selective Calling) and SELCAL standard (Built-in modulator)
- Built-in testing program
- Local/remote control

GENERAL

The JRS-900 series radio transmitter is a general-purpose high performance fully solid-state HF transmitter. The JRS-913/ 953/ 914 radio transmitter can provide an output power of 1kW/ 5kW/ 10kW peak envelope power (PEP), respectively. Operating modes include telegraphy (CW), compatible AM (full carrier SSB), single sideband (reduced or suppressed carrier SSB), and frequency shift keying (FSK). The transmitter is designed in compliance with relevant the ITU-R recommendations, the ITU radio regulations and the ICAO standards, and ensuring high reliability and easy of operation/maintenance. The fully solid-state transmitter minimizes maintenance with safety and assures long life and low running cost, as compared with the conventional usual transmitters.

SPECIFICATIONS

	JRS-913	JRS-953	JRS-914
Frequency(MHz)	1.6000-29.9999		2.0000-29.9999
Programmable channels	100 spot frequency channels		
Frequency deviation (Hz)	±10		
Frequency stability	Within $\pm 1 \times 10^{-8}$ /day		
Output power(kW PEP)	1	5	10
Power reduction	Full: 100% , Medium: 40% ~ 60% , Low: 20% ~ 30%		
Mode of emission	CW, AME, Reduced carrier SSB, Suppressed carrier SSB and FSK*		
RF output load	50 ohms unbalanced, VSWR 3:1 max		
Channel switching time(sec)	0.25 or less	3.0 or less	5.0 or less
Harmonics and spurious(dB)	-60 or less		
Intermodulation distortion(dB)	-45 or less		
Hum and noise(dB)	-50 or less		
Occupied band width	CW: 250Hz or less		
	SSB: 3kHz or less		
	FSK: 404Hz or less		
Audio input(VoIP)	G.711 (μ -law)		
Audio input(Analog)	-20dBm to +10dBm, 600 ohms balanced		
Keying speed(baud)	Up to 50 (CW), Up to 200 (FSK)		
Power requirements	50/60Hz		
(Single phase)	100VAC, 200 - 240VAC	Not available	
(3 phase)	200 - 220VAC	200VAC,220VAC,380VAC,400VAC or 415VAC	
(Power consumption)	3.5kVA or less	18kVA or less	35kVA or less
Remote control	LAN (VoIP) ,MODEM (2W / 4W)		
Environmental	Temperature: 0 °C to 50 °C, Humidity: 95% or less at 40 °C		
Dimension(mm)	H1250×W570×D630	H1650×W1150×D700	H1850×W1430×D800
Weight(kg)	140	500	750

*NOTE : In the FSK mode, it is possible to use a tone shift key signal of 1700 ± 85 Hz from external or internal.

• Specifications may be subject to change without notice.

For further information, contact:



Since 1915

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