



R V R PJ300C-LCD Solid State Amplifiers Owner's Manual

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R V R PJ300C-LCD Solid State Amplifiers



Product Information

Product Name	RVR PJ-C Solid State Amplifiers
Model Options	PJ300C-LCD, PJ500C-LCD, PJ700C-LCD, PJ1000LIGHT
Primary Application	RVR PJ-C amplifiers offer uncompromised amplification power at a very attractive price. Ideal for small to medium power stations. Adjustable power output from 0 to maximum output power.
Amplifier Features	High-gain amplifiers with very low input drive power requirement are used in the PJ300C-LCD. Elevated-gain amplifiers with very low input drive power requirement are used in the PJ500C-LCD, PJ700C-LCD, and PJ1000LIGHT.
Hardware Features	RVR PJ-C amplifiers are extremely compact and rugged thanks to the stainless steel chassis. The PJ300C-LCD is 2RU high, and the PJ500C-LCD, PJ700C-LCD, and PJ1000LIGHT are only 3RU high.
User-Friendly Features	Universal 80-260VAC multi-voltage power supply enables operation on different mains voltages with no need to pre-select voltage. Pushbuttons for user/device interaction provides enhanced accessibility and control, resulting in extreme ease of use. Configuration software offers a simple, intuitive, human interface.
Operating Efficiency	RVR PJ-C amplifiers incorporate a PFC (Power Factor Corrector) power supply that provides the utmost power efficiency for enhanced energy savings and environmental protection.
Ease of Maintenance	Advanced module design ensures easy accessibility and maintenance.
Reliability/Continuity	SMD technology used in manufacturing the PJ-C series ensures enhanced reliability and uninterrupted performance. APC (Automatic Power Control) and Fold-back protection ensure reliable operation under any operating conditions.
Interface Control	Total microprocessor control, easily programmable from panel menu or via RS232 with all key parameters displayed on the front panel LCD display.
Remote Control	Built-in Telemetry System with GSM modem, battery, and battery charger (optional; must be factory ordered).
Regulatory Compliance	State-of-the-art technology and design results in equipment that is in full compliance with FCC, CCIR, and EC standards.

Product Usage Instructions

To use the RVR PJ-C Solid State Amplifiers, please follow the instructions below:

1. Ensure that the amplifier is connected to a suitable power source within the voltage range of 80-260VAC.
2. Connect the input drive power source to the appropriate input port of the amplifier.
3. Using the pushbuttons on the front panel or via RS232 connection, access the microprocessor control interface.
4. From the interface, you can program and adjust key parameters such as power output and gain.

5. All key parameters will be displayed on the LCD display located on the front panel of the amplifier.
6. Adjust the power output from 0 to the desired maximum output power according to your requirements.
7. For maintenance purposes, if needed, access the advanced module design for easy accessibility.
8. The amplifier incorporates APC (Automatic Power Control) and Fold-back protection for reliable operation under any operating conditions.

Features

- **PRIMARY APPLICATION:** RVR PJ-C amplifiers offer uncompromised amplification power at a very attractive price. Ideal for small to medium power stations. Adjustable power output from 0 to maximum output power.
- **AMPLIFIER FEATURES:** high-gain amplifiers with very low input drive power requirement are used in the PJ300C-LCD. Elevated-gain amplifiers with very low input drive power requirement are used in the PJ500C-LCD, PJ700C-LCD and PJ1000LIGHT.
- **HARDWARE FEATURES:** RVR PJ-C amplifiers are extremely compact and rugged thanks to the stainless steel chassis. The PJ300C-LCD is 2RU high, and the PJ500C-LCD, PJ700C-LCD, and PJ1000LIGHT are only 3RU high.
- **USER-FRIENDLY FEATURES:** universal 80-260VAC multi-voltage power supply enables operation on different mains voltages with no need to pre-select voltage. Pushbuttons for user/device interaction provides enhanced accessibility and control, resulting in extreme ease of use. Configuration software offers a simple, intuitive, human interface.
- **OPERATING EFFICIENCY:** RVR PJ-C amplifiers incorporate a PFC (Power Factor Corrector) power supply that provides the utmost power efficiency for enhanced energy savings and environmental protection.
- **EASE OF MAINTENANCE:** advanced module design ensures easy accessibility and maintenance.
- **RELIABILITY/CONTINUITY:** SMD technology used in manufacturing the PJ-C series ensures enhanced reliability and uninterrupted performance. APC (Automatic Power Control) and Fold-back protection ensure reliable operation under any operating conditions.
- **INTERFACE CONTROL:** total microprocessor control, easily programmed from panel menu or via RS232 with all key parameters displayed on the front panel LCD display.
- **REMOTE CONTROL:** built-in Telemetry System with GSM modem, battery and battery charger (optional; must be factory ordered).
- **REGULATORY COMPLIANCE:** state-of-the-art technology and design results in equipment that is in full compliance with FCC, CCIR, and EC standards.

FM Mosfet Amplifiers 87,5 – 108 MHz



PJ1000C-LIGHT rear view

Technical specifications

Parameters	Values	Values
GENERALS		
Rated output power	300W	500W
Frequency range	FCC -CCIR and other on request	
Input power for rated output	10 W	
Primary Power	80 ÷ 260 Vac	
AC Power Consumption	540 VA / 500W / PF: 0,93	920 VA / 900 W / PF: 0,98
Overall efficiency	60%	55%
Phisical Dimensions (W x H x D)	483 x 88 x 394 mm	483 x 132 x 520 mm
Weight	9 kg	23 kg
Environmental Working Conditions	-10 ÷ +50 °C / 95% relative Humidity non condensing	
Cooling	Forced, with internal fans	
CONNECTORS		
RF Input	N (50 ohm)	
RF Output	N (50 ohm)	
RF Monitor	BNC (- 60dBr referred to RF output)	
Interlock Output	BNC	
Interlock Input	BNC	
STANDARD COMPLIANCE		
Safety	EN 60215:1989 EN60215/A1:1992-07 EN60215/A2:1994-09	
EMC	EN 301 489-1 V1.4.1 (2002-08) EN 301 489-11 V1.2.1 (2002-11)	

- 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.

<i>Value</i>	<i>Value</i>
700W	1000W
FCC -CCIR and other on request	
12W	11W
80 ÷ 260 Vac	230VAC ±15% or 115VAC ±15%
1215 VA / 1190 W / PF:0,98	1650 VA / 1617 W / PF: 0,98
59%	62%
483 x 132 x 520 mm	
23 kg	
-10 ÷ +50 °C / 95% relative Humidity non condensing	
Forced, with internal fans	
N (50 ohm)	
N (50 ohm)	7/16" EIA flange type, 50 ohm
BNC (- 60dBr referred to RF output)	
BNC	
BNC	
EN 60215:1989 EN60215/A1:1992-07 EN60215/A2:1994-09	
EN 301 489-1 V1.4.1 (2002-08) EN 301 489-11 V1.2.1 (2002-11)	



Ordering information

Options for PJC-LCD

Code /Description

- **CNT7/8-150:** 7/8" output RF connector. Available for model PJ1000LIGHT

Contact

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Documents / Resources



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