

HENRY RADIO

RF POWER AMPLIFIERS

- Emission: FM (Class C) Unless otherwise specified.
- Input/Output Impedance: 50 ohms nominal.
- Connectors: UHF, N, or BNC as required - others on request.
- Insertion Loss: Less than 1 dB with T/R relay.
- Type Acceptance: When used with type-accepted excitors - where applicable.
- Harmonic Attenuation: Better than FCC requirements at all power levels.
- Duty Cycle: Mobile packages - 50%.
- Duty Cycle: Repeater/Paging/Base - 100%.
- Power Requirements: +13.8 vdc nominal (negative ground).
- Transmit/Receive Relays: Standard on mobile amplifiers, optional on repeater/base.
- Cooling - Mobile: Conservative heat sinks.
- Cooling - Repeater/Paging/Base: Thermostat controlled fans.



Low Band Power Amplifiers (30 to 60 MHz)

Mid Band Power Amplifiers (60 to 88 MHz)

FM Band Power Amplifiers (88 to 108 MHz)

Air Band Power Amplifiers (118 to 136 MHz)

VHF Band Power Amplifiers (136 to 174 MHz)

Model	Watts In / Out	Bandwidth	DC Volts/amps
C130AB02	5-130 Mobile	20 MHz +/-	13.8 vdc - 25A
C130AB02R or P	5-100 Cont.	20 MHz +/-	13.8 vdc - 25A
C130AB10	10-130 Mobile	20 MHz +/-	13.8 vdc - 25A
C130AB10R or P	10-100 Cont.	20 MHz +/-	13.8 vdc - 25A
C130AB30	30-130 Mobile	20 MHz +/-	13.8 vdc - 25A
C130AB30R or P	30-100 Cont.	20 MHz +/-	13.8 vdc - 25A
C250AB02R or P	5-250 Cont.	10 MHz +/-	13.8 vdc - 45A
C250AB10R or P	10-250 Cont.	10 MHz +/-	13.8 vdc - 45A
C250AB30R or P	30-250 Cont.	10 MHz +/-	13.8 vdc - 45A

220 MHz Band Amplifiers

UHF Band Power Amplifiers (400 to 512 MHz)

Model	Watts In / Out	Bandwidth	DC Volts/amps
C100D02	5-100 Mobile	10 MHz +/-	13.8 vdc - 25A
C100D02R or P	5-100 Cont.	10 MHz +/-	13.8 vdc - 25A
C100D10	10-100 Mobile	10 MHz +/-	13.8 vdc - 25A
C100D10R or P	10-100 Cont.	10 MHz +/-	13.8 vdc - 25A
C100D30	30-100 Mobile	10 MHz +/-	13.8 vdc - 25A
C100D30R or P	30-100 Cont.	10 MHz +/-	13.8 vdc - 25A
C200D10R or P	10-200 Cont.	10 MHz +/-	13.8 vdc - 45A
C200D30R or P	30-200 Cont.	10 MHz +/-	13.8 vdc - 45A



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- Standard voltage is 13.8 VDC. 28 Volts is available for most models.
- Most mobile amplifiers may be tuned for broadband operation.
- UHF connectors are standard on all mobile amplifiers through 512 MHz. Type N connectors are standard on 806-960 MHz units. Other connectors are optional.
- Solid State Carrier Operated Relays are standard in all mobile amplifiers with the exception of VHF High Band models with outputs above 45 Watts; these models have mechanical relays. Solid State Relays for these models are optional.
- All power specifications are nominal.
- Specifications subject to change without notice.



MODEL	POWER IN	POWER OUT
VHF LOW BAND 29.7 - 50 MHz		
VHF HIGH BAND 136 - 174 MHz		
PA3-1AC	1 - 5 W	10 - 45 W
PA3-1AE3	1 - 3 W	70 - 140 W
PA3-1DE	8 - 15 W	70 - 140 W
PA3-1FE	20 - 40 W	70 - 140 W

MODEL	POWER IN	POWER OUT
UHF 400 - 515 MHz		
PA6-1AC	1 - 4 W	10 - 50 W
PA6-1BC	8 - 15 W	25 - 50 W
PA6-1AE	1 - 3 W	75 - 100 W
PA6-1FE	15 - 30 W	75 - 100 W

MODEL	POWER IN	POWER OUT
UHF HIGH BAND 806 - 960 MHz		
PA8-1DD	4 - 8 W	40 - 80 W
PA8-1FD	15 - 30 W	40 - 80 W

RXR RF POWER AMPLIFIERS

- Accommodates all bands from 29.7 MHz to 960 MHz.
- Vertical fins for efficient convection cooling.
- 100% duty cycle operation.
- Repeater or base station operation (with bypass relay option).
- Available with or without self-contained switching power supply.
- Front panel circuit breaker/on-off switch - flat front panel allows for cabinet door closure.

MODEL	POWER IN	POWER OUT
VHF LOW BAND 29.7 - 50 MHz		
VHF HIGH BAND 136 - 174 MHz		
PA3-1AE3-RXRF	2.5-5W	80-150W
PA3-1DE-RXRF	8-15W	80-150W
PA3-1FE-RXRF	15-25W	80-150W

MODEL	POWER IN	POWER OUT
UHF LOW BAND 216 - 222 MHz		
UHF 400 - 512 MHz		
PA6-1AE3-RXRF	3-6W	75-100W
PA6-1BE-RXRF	8-15W	75-100W
PA6-1FE-RXRF	15-30W	75-100W

UHF HIGH BAND 700 - 960 MHz



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