



# RNG-AMPS VHF STANDARD LINE AMPLIFIER

- Highest RF Gain Amplifier Available
- Local Diagnostics
- Supply Voltage Range, 5.5 36Vdc
- Facilitates Ethernet Connectivity
- 16 Simultaneous Noise-Free Radio Channels

smartcom

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### smartcom<sup>®</sup>

#### FEATURES

Becker Mining Systems smartcom<sup>®</sup> 150 Standard Line Amplifiers compensate for Leaky Feeder cable and splitting losses while providing 16 simultaneous noisefree voice radio channels (no third order intermodulation products) and Ethernet connectivity using standard cable modems. All smartcom<sup>®</sup> 150 line amplifiers provide up to 500 m spacing.

Local Diagnostics, Ethernet, video and accurate Automatic Gain Control (AGC) without Return Pilot noise buildup are built-in to every RNG-AMPS amplifier. Upgrade to remote diagnostic version available. Call for more information.

2 Year component & workmanship warranty.

~	MECHANICAL DATA		
	Dimensions (L x H x W)	323 x 90 x 180 mm (12.7 x 3.5 x 7.1 in)	
	Weight (nominal)	1.00 kg (2.20 lbs)	
	LF Connectors	Two 3 Terminal Lug Connectors or Brass Block Connectors, PG21 cable grips	
	Test Ports	2 BNC jack ports	

## ENVIRONMENTAL DATA Temperature -20 to +60° C

Range	(-4 to +140° F)
Protection Class	NEMA 4x (IP66)

### **TECHNICAL DATA**

PERFORMANC	E SP	ECIFICATIONS
Input Impedance	ce	75 Ω
Input Voltage	/	5.5-36 Vdc
Current Consumption	/	128 mA @ 12 Vdc, 73 mA @ 36 Vdc
DC Blocking		Jumper Selection on
Amplifier Spaci	ng	Board Input/Output
		nstream
Gain		10-25 dB
Gain Adjust Rai	nge	15 dB (1 dB steps)
Gain Control		MGC, AGC
Bandwidth		15 MHz
3 dB Bandpass		145-160 MHz
3 <sup>rd</sup> Order Intern free Channel Capacity	nod	16 Voice/Data, 8 Video (2 per main branch)
Ethernet Bandpass		6.0 MHz
DOCSIS 2.0 Da Rate	ta	30.34 Mbps (64 QAM)
Third Order Intercept (3IP)		+31 dBm
	Up	stream
Gain		13-28 dB
Gain Adjust Ra	nge	15 dB (1 dB steps)
Gain Control		MGC, AGC
Bandwidth		15 MHz
3 dB Bandpass		170-185 MHz
Ethernet Bandpass		6.4 MHz (max)
DOCSIS 2.0 dat rate	ta	20.48 Mbps (16 QAM)
Third Order Intercept (3IP)	/	+29 dBm

YHF STANDARD LINE AMPLIFIER



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#### **Becker Varis**

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Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.



**bockor**<sup>®</sup> MINING SYSTEMS