



KEY FEATURES

- High gain and linearity
- Output power up to 200W
- Gain adjustment (Local & Remote)
- Remote Monitor & Control (Local & Remote)
- Output sample monitor port
- > Temperature gain compensation
- > Automatic over-temperature shutdown
- > Automatic high reflected power shutdown
- Infinite VSWR protection
- Power factor correction
- CE Marking

OPTIONS

- Integrated Block Up Converter
- RF input sample port
- Redundant system

ACCESSORIES

- Redundancy Kit
- Shelf slides
- Band pass filter
- Remote M&C panel (Ethernet port optional)

OVERVIEW

The ARMA-2000S[®] series are the rack-mount solid-state power amplifiers (SSPAs), operating in S-Band frequency range. The amplifier is an integrated unit, complete with power supply and cooling system. Intended for indoor operation, the amplifiers are of compact size and occupy four rack-mounting spaces (4 RU - 7") of a standard 19-inch rack. Built-in microprocessor controller provides capability for serial port interfaces (RS485) for remote monitoring and control.

Advantech's SSPAs set the industry standard for linearity and operating efficiency. Built-in design features and assembly methods incorporated with efficient combining techniques result in the trouble-free operation of the amplifier.

APPLICATION

The featured SSPAs are designed for S-Band satellite up-link applications. They are designed for 19-inch rack mounting in a protected environment. The ARMA-S series are available in output power from 100W to 1000W. For higher power Advantech provides phase-combined systems.

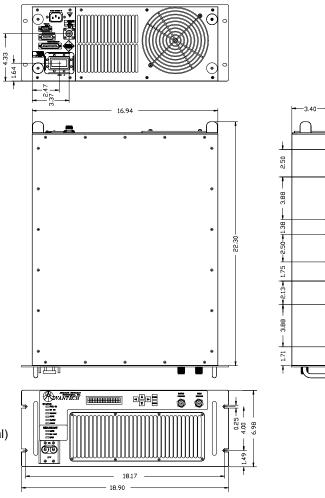


Table A									
Band	RF Band (GHz)	Output Power (W)							
S	2.025 - 2.120	150 - 200							

Other SSPAs are available for operation at other satellite frequency bands. With all the features of the ARMA-S, Advantech also offers a built-in converter.

REDUNDANCY

With the addition of the appropriate waveguide and switch kit, the ARMA-2000S[®] amplifiers can be easily converted for the operation in 1:1 redundant configuration without the use of any external controller. Full remote Monitor and Control of the redundant system is accessible via the serial port (RS-485).



ГЛТ

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S-BAND RACK-MOUNT SSPA 150W to 200W ARMA-2000S[®] series



TECHNICAL S	PECIFICATIONS		150W			200W			
Electrical Characteristics									
Availability in th	is series								
S		√		ν					
Output power (P _{SAT})		+52 dBm			+53 dBm				
Output power (P1dB) min		+51 dBm		+52 dBm					
Power Gain @	max setting	65 dB min							
Gain flatness Gain slope Gain variation of Gain variation of Input VSWR Output VSWR Noise Power D Spurious at rate Harmonics at rate	it range er w/out damage over temperature over 24 hours ensity ed power	2.025 GHz - 2.120 GHz 20 dB +10 dBm ±1.5 dB max over full band ±0.6 dB over 10 MHz at 25°C 0.015 dB/ MHz max. ±1.5 dB over full operating range (temperature compensation mode) ±0.25 dB max at constant temperature & drive level 1.3:1 1.4:1 -100 dBm/Hz max in TX band -65 dBc, max. -90 dBc, max 2.5°/dB max. at P1dB, 1°/dB max. at 3 dB back-off from rated P1dB							
Third order IMD (two equal tones 5 MHz apart) Group Delay		-26 dBc max. at 3 dB total back-off from rated P1dB Linear: 0.01 nsec/MHz max. Parabolic: 0.002 nsec/MHz ² max. Ripple: 0.5 nsec p-p max.							
Residual AM		0-10 kHz		-45 dBc					
(F* - frequency in kHz)		10 kHz - 500 kHz -20 (1.25+lc 500 kHz - 1 MHz -80 dBc			ıg F*) dBc				
Power Require		1							
AC input voltage		90-264 VAC auto ranging (47-63 Hz)							
Power consum	ption (nom.) (W)		600			800			
Panel Height Weight	IATACTERISTICS	4 RU of 19" ra 30 kg (66 lbs)							
Interfaces:	RF input RF output Output sample port	N-Type (F) N-Type (F) N-Type (F)	Redundancy RS-232 RS-485	D-sub 25 D-sub 95 D-sub 95	5	Discrete port AC Line	D-sub 9S IEC 320 inlet		
Environmental Conditions									
Temperature: Humidity	Operating Storage	0°C to +50° -55°C to +85° 5%-95%, non	C -condensing						
Altitude		10,000' AMSL, de-rated 2°C/1,000' from AMSL							

Specifications are subject to change without notice



UNITED STATES

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