BPBC18
X-band Outdoor Single Solid State Power Amplifier

MAIN FEATURES

- 100W RF power
- Full remote M&C
- High reliability

DESCRIPTION

This solid state power amplifier is intended for use in satellite communications systems as uplink SSPA. It is to be installed directly to the antenna. The outdoor construction protects the amplifier against harsh environmental conditions. The SSPA can be fully remotely monitored and control via the built-in RS-485 or Ethernet port.

SPECIFICATIONS

Frequency Band	7190 – 7250 MHz	
RF Output Power	50 dBm @ Psat	
Power Gain	60 dB min. @ P1dB	
Gain Flatness	± 1 dB @ full band ± 0.5 dB @ any 10MHz	
In/Out Impedance Nominally	50 Ohms	
RF Input Interface	N-female	
RF Output Interface	WR-137 (sealed)	
Input VSWR	< 1.5 : 1	
Output VSWR	< 1.5 : 1	
Gain Adjustment Range	min. 20 dB	
Gain Adjustment Step	0.5 dB typ.	
Harmonics @ P3dB	< -60 dBc	
Spurious @ P3dB	< -60 dBc	
Noise Figure	< 5 dB	
AM/PM Conversion @ P3dB	3°/dB max.	
Two Tone Intermodulation Distortion (1MHz spacing)	< -25 dBc @ 47dBm	
Group Delay	Linear	Group Delay
	Parabolic	0.003ns/MHz^2
	Ripple	1ns (peak to peak)
Power supply	200-260 VAC; 45-55 Hz	
Remote Control	RS485 or Ethernet	
Cooling	Forced Air	
Operating temperature range	-40 to +60 °C	

Specifications are subject to change without notice.

BHE
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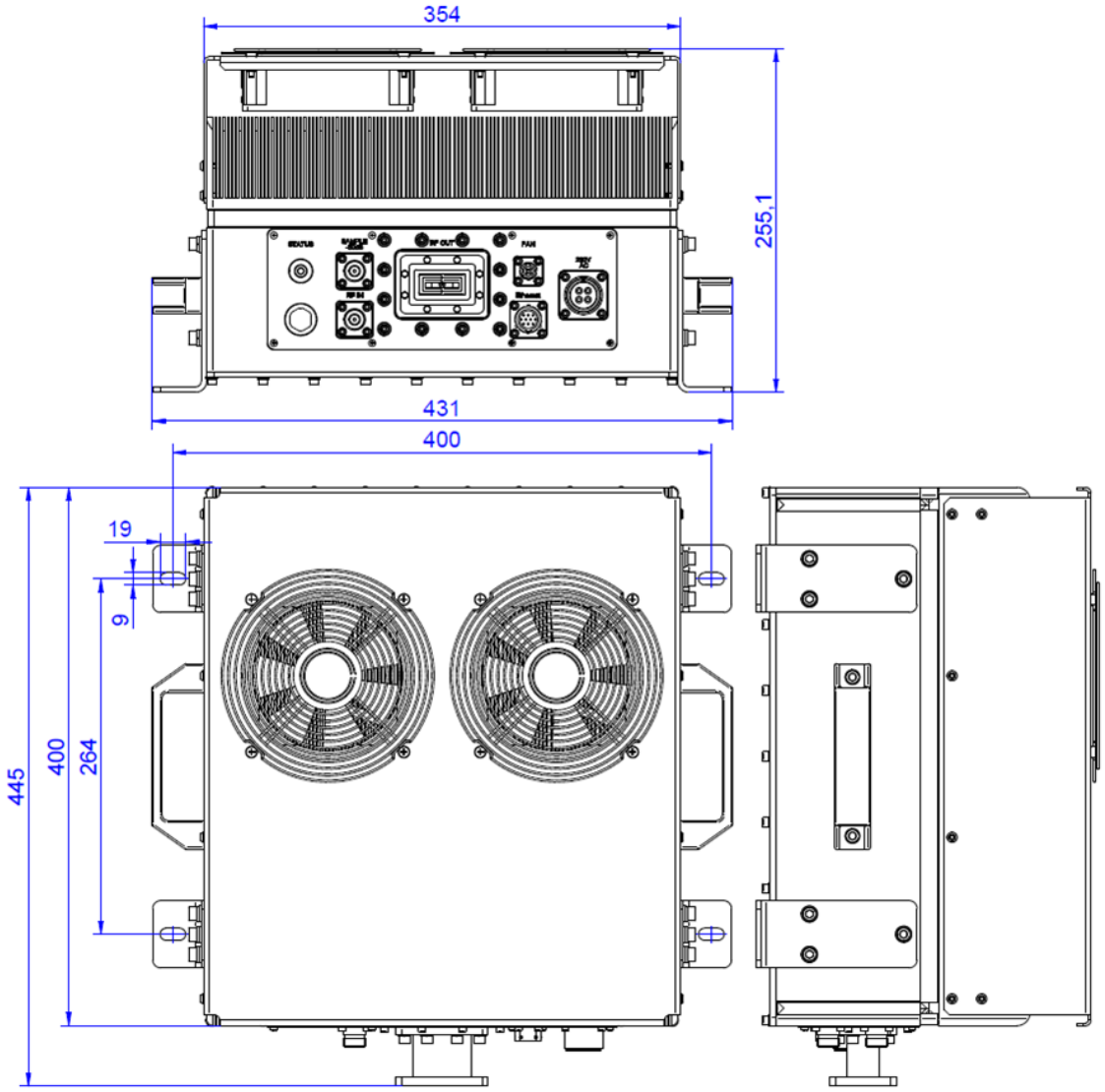
CONTROL SOFTWARE SUMMARY SCREEN

OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BPBC18K10829	BPBC18 100 W, C-band 7190-7250 MHz, single SSPA, outdoor, Ethernet control

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BPBC18-LM-K10829	V01	19/11/2021