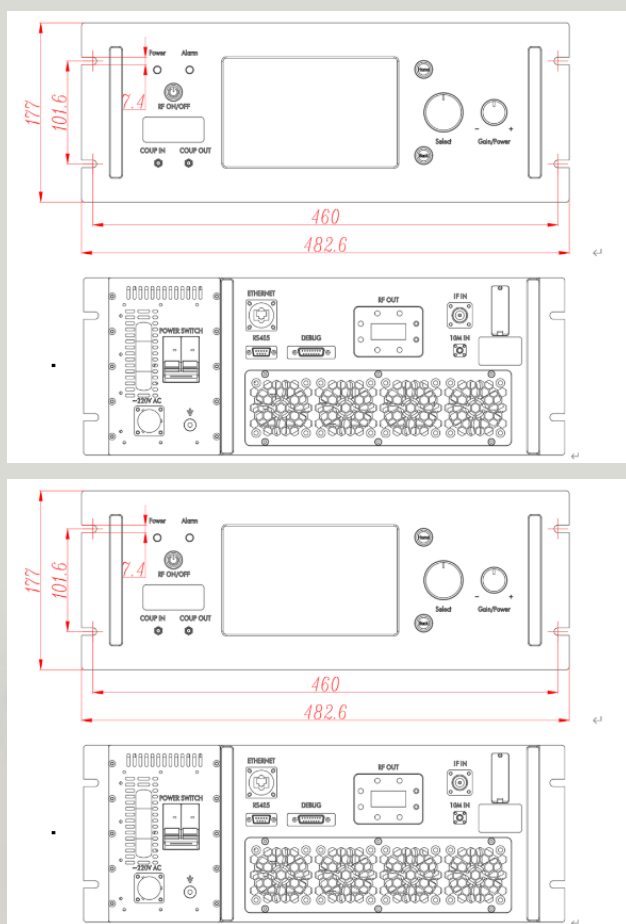


## C-BAND 400W BUC (Indoor Rackmount BUC)

### SatPB-FC400ID

#### Overview

The new indoor rackmount C-BAND 400W Block-Up Converter (BUC/SSPB) produced by Beijing SatHarbor Technology Development Co., Ltd. is an industry-leading miniaturized, intelligent, full-featured satellite communication product. It is widely used in broadcasting and television operators, telecommunications operators, satcom gateway stations, emergency and other industries.



#### Key Features

- ✓ Built-in up converters (optional)
- ✓ Higher Efficiency and Lower Power Consumption
- ✓ High linearity
- ✓ Removable Fan Tray and Power Supply Module
- ✓ 1:1、2:1 Redundancy Kits Available
- ✓ Internal 10MHz Reference (optional)
- ✓ Full M&C capability via RS232, RS485 and Ethernet port
- ✓ Customization service available

# C-BAND 400W BUC (Indoor Rackmount BUC)

## Specifications

RF Specifications			
RF Frequency		Full C 5.85GHz - 6.725GHz (Std. C 5.85GHz - 6.425GHz optional)	
IF Frequency		950MHz - 1825MHz (950MHz - 1525MHz optional)	
L.O.		4.9GHz	
Saturated Output power, P-sat		+56.5 dBm (447W)	
Rated Output Power, P-rated		+56.0 dBm (400W)	
Linear Power, P-linear		+53.0 dBm (200W)	
10 MHz Reference		Internal/External Reference 10 MHz with autosense Internal reference 10MHz, no more than $\pm 0.1$ ppm over Temp. External reference 10MHz: 0dBm $\pm 5$ dB	
Small Signal Gain		75dB min.	
Gain Adjustment		20 dB in 0.25 dB steps	
Gain Flatness		$\pm 2.0$ dB (Full Band)/ $\pm 1.5$ dB(500MHz) / $\pm 0.6$ dB (40MHz)	
Gain Variation (Over Temp.)		$\pm 1.0$ dB max. (-5 - 55°C)	
Output Spurious@53dBm		-55dBc max (In Band)	
Phase Noise		-65dBc max. @100Hz -75dBc max.@1KHz -85dBc max.@10KHz -95dBc max.@100KHz	
IMD3		-25dBc max (3 dB back-off from Rated Output Power, with respect to each of two equal carriers 5 MHz apart)	
Input VSWR		1.5: 1 max	
Output VSWR		1.5: 1 max	
Noise Power Density		-76dBm/Hz max @Tx Band 5.85 - 6.725GHz -156dBm/Hz max @Rx Band 3.4 - 4.2GHz	
Power Supply		220VAC (+176V +264V, 47-63 Hz)	
Power Consumption (@Rated Output Power)		2 KW max	
Mechanical Characteristics		Environmental	
Power Class	400W	Operating Temp.	-5°C - +55°C
Dimensions	610 * 482.6 * 177mm (19", 4U)	Storage Temp.	-20°C - +70°C
Weight	38.0Kg max	Relative humidity	100% non-condensing
Interfaces	IF IN: N-type female, 50Ω RF OUT: CPR-137G SAMPLE IN/OUT: N-type female, 50Ω 10M IN: SMA female, 50Ω RS485: 9-Pin DSUB-F DEBUG: 15-Pin DSUB-F(RS422/RS232/RS485)	<b>Compliance Information</b>  ✓ RoHS Compliance. ✓ To ensure safety of operators, the products have been designed to comply with IEC/EN/UL 60950/ 60950-1, GB/T 16895 standards.  ✓ The products have been designed to comply with EN 55024, EN 61000-4-2/3/4/5/6/11, EN 301-489, GB/T 17626.X.	
Power Supply	3-Pin MIL Circular Connector (AC)		
M&C	RS422/RS485/RS232 Ethernet: HTTP&SNMP BUC Temp, alarm status, RF output/IF input power, RF reflected power, event log. Gain adjustment, RF output on/off		

\*\*\* The details contained in this document, including product and feature specifications, are subject to change without notice.