



- High Output, Low Power Consumption
- GAN HEMTs results in best in class MTBF
- Outdoor, Compact, Lightweight Design
- Designed to Meet ETSI & FCC Standards
- RoHS Compliant
- 3 Year GeoSat Product Warranty

40W Ku-Band Block Up-Converter (BUC)

Model: GB46FKU3N



Section	Item	Specification	
Power Requirement	Voltage	36 to +72 VDC, 85 to 220 VAC (Optional)	
	Power Consumption	300W at Rated Output Power 270W 3 dB Back-off from Rated Output Power	
Input Characteristics	Frequency Range	950 ~ 1450MHz (950 ~ 1700MHz optional)	
Output Characteristics	Frequency Range	13.75 ~ 14.5GHz (14.0-14.5GHz optional)	
	Saturated / Rated / P1dB Power	46.5dBm / 46dBm / NA	
	Output Spurious	-55 dBc (Max)	
	RF Connector / VSWR	WR 75-G (Grooved) / 1,5:1	
Transfer Characteristics	External Reference Frequency	10 MHz, 0 ± 5 dBm	
	Gain Variation	1 dB p-p/36 MHz, 3 dB p-p/500 MHz, 4 dB p-p/750 MHz	
	Gain Stability	±1.5 dB	
	Gain Adjustment Range	20 dB (Step: 1 dB)	
	Small Signal Gain	70 dB	
	IM3 -3dB Back-off fr Rated Output Pwr.	-25 dBc	
	Phase Noise ▼	100Hz	< -66dBc / Hz
		1kHz	< -76dBc / Hz
10kHz		< -86dBc / Hz	
100kHz		< -96dBc / Hz	
Power Supply Connector	ACS02E16-11P		
Monitor & Control Connector	PT02E-14-19P, for RS-485 & RS-232 & Ethernet (Telnet)		
LED Indicators	LEDs off: Equipment functioning properly Yellow LED on: PLL unlock alarm		
Mechanical	Dimension (mm)	206*136*116 mm	
	Weight	4.0kg	
	Humidity / Altitude	0 - 100% (Condensing) / 0 - 3000 m ASL	
Operating Temperature		- 40°C ~ + 60°C	