TERRASAT Communications, Inc.

1RU RACK MOUNT BUC POWER SUPPLY

Application: Provides DC power for 2W through 10W Terrasat Communications Block Upconverters in installations where the modem power supply is not adequate.

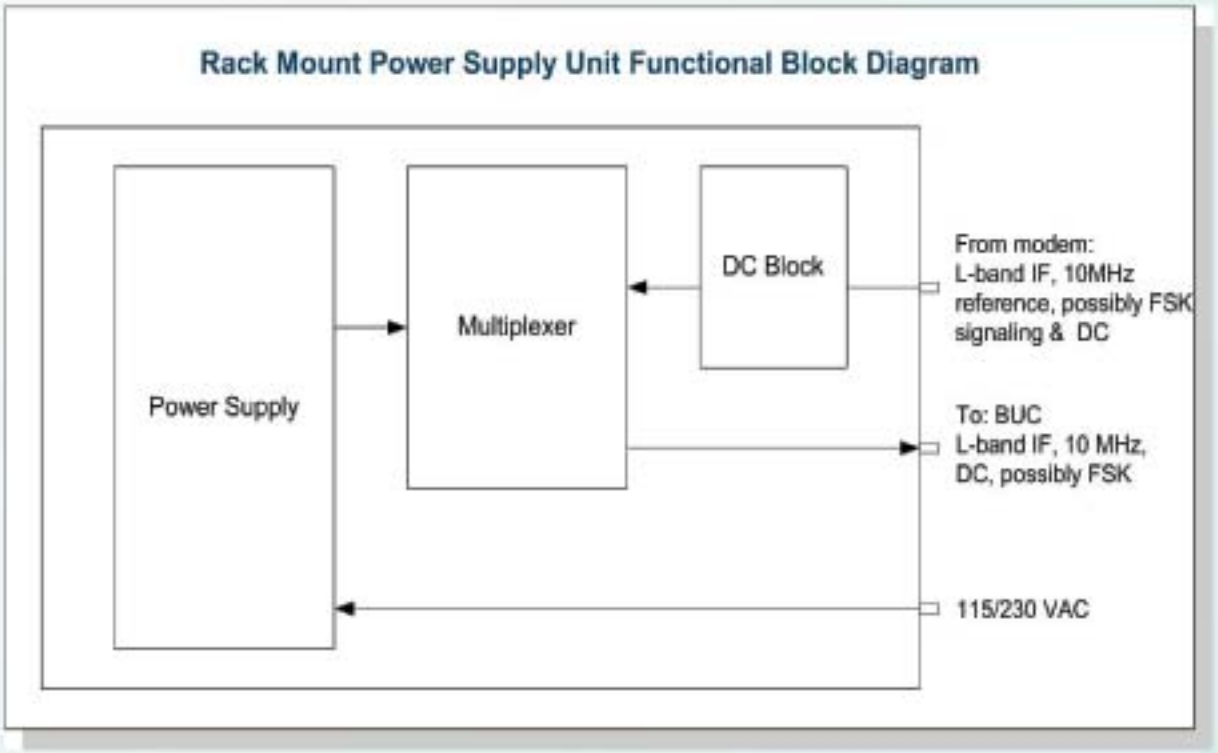
Description: Terrasat's Rack Mount BUC Power Supply provides power to the BUC by multiplexing DC voltage onto the IFL cable. The unit is packaged in a 1 RU chassis with front-panel LED power indicator. The Rack Mount PSU is an auto-ranging AC input unit accepting 90-264 VAC. The alternative of 24 or 48 VDC is factory selected based on the customer's requirement at time of order.

The Rack Mount BUC Power Supply accepts the IF input from the modem and multiplexes it with DC power onto the IFL cable. The L-band IF input from the modem typically has a 10 MHz reference signal for the BUC and may also have FSK signaling and DC voltage. A DC block circuit within the PSU removes any DC at the input.

Input and output connectors are type "N" female.

Order Part Number PSU-124 (24V) or PSU-148 (48V)

Rack Mount Power Supply Unit Functional Block Diagram



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Specifications

Input

Input L-band IF frequency	950-1525 MHz
Reference frequency	10 MHz
M&C signaling	FSK (modem option)
Input voltage	90-132 VAC, 180 to 264 VAC (auto-ranging)
Input voltage frequency	47-63 Hz
Input current	5A max at 115 VAC, 2.5A max at 230 VAC

Output

Output L-band IF frequency	950-1525 MHz
Output voltage	24V or 48V, factory select
Reference frequency	10 MHz
M&C signaling	FSK (modem option)
Output current	0.5 to 8.3A (24V), or 0.5 to 4.1A (48V)

Environmental

Operating temperature	0 to +50 degrees C*
Storage temperature	-25 to +85 degrees C

Safety and EMC

Safety approvals	EN60950
EMI	Complies with EN55022 Class B

Mechanical

Size	17.95"(L) x 19.0"(W) x 1.75"(H) 46cm(L) x 48.3cm(W) x 4.4cm (H)
Weight	7 lbs. 5 oz.(3.3 Kg)

*Derate linearly from 100% load at 40 deg C to 75% load at 50 deg C.

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