

Indoor Power Supply

Advantages

Cost effective, indoor rack-mount power supplies.

Efficient units providing 48VDC for IBUC's to 125W C-, 125W X- and 80W Ku-band.

Optimized for SNG-vehicle and mobile applications.

Power factor corrected power supply with universal 90-264 VAC input.



Terrasat's Indoor IBUC Power Supplies, models PSUI-1148 and PSUI-1248, run on AC mains power and provide 48 VDC power to the IBUC through a multi-conductor 16 AWG cable. The units are packaged in rack-mountable chassis with internal cooling fans.

The Indoor Power Supplies provide 48VDC power for Terrasat IBUC's through 125W C-band, 125W X-band, and 80W Ku-band.

These efficient and cost effective power supplies are ideal for SNG vehicles, mobile terminals and other applications where a short cable run and mounting inside the vehicle, shelter or transit case is the preferred configuration.

Installed in a standard 19-inch rack, the Indoor Power Supplies occupy only one rack unit (1.75") of rack space and are powered from AC mains.

Simple, plug-and-play installation requires no on-site configuration.

The DC output connector is a circular MS-type compatible. An optional DC cable can be provided in customer-defined lengths with connectors installed for interconnection to Terrasat IBUC's.

Indoor Power Supply Specifications

	PSUI-1148	PSUI-1248
Electrical		
Nominal output voltage (DC)	48V	48V
Output regulation	6%	6%
Output rated current	12.6 Amp	21 Amp
Output ripple and noise (p-p)	1% peak-to-peak	1% peak-to-peak
DC output power, nominal	600W	1000W
Efficiency	88% min. at 600W, 230VAC	88% min. at 1000W, 230VAC
Input voltage range	90-264 VAC	90-264 VAC
Input frequency	47-63 Hz	47-63 Hz
AC current	8.4A rms @ 90VAC and 600W load	14A rms @ 90VAC and 1000W load
Power Factor, per EN6100-3-2	0.97 W/VA	0.97 W/VA
Inrush current	20A peak @ $V_{in} = 230VAC, 25^{\circ}C$	34A peak @ $V_{in} = 230VAC, 25^{\circ}C$
Input leakage current, per EN 60950	< 3.5mA @ 240VAC	< 3.5mA @ 240VAC
Output connector	ACS 02E14S-6S (553)	ACS 02E14S-6S (553)
Environmental		
Operating temperature	0 to 50°C	0 to 50°C
Humidity	95% RH (non-condensing)	95% RH (non-condensing)
Mechanical		
Weight	8 lbs. (3.7 kg)	8 lbs. (3.7 kg)
Dimensions	19(w) x 8.5(d) x 1.75(h) inches 483 x 216 x 45 mm	19(w) x 8.5(d) x 1.75(h) inches 483 x 216 x 45 mm
Applications	C-band through 50W X-band through 50W Ku-band through 40W	C-band 60W through 125W X-band 60W through 125W Ku-band 50W through 80W