

Outdoor Power Supply

Features

Weatherproof Outdoor Enclosure.

Eliminates expense of long DC Cable runs.

Mounting kits for single and 1+1 systems available.

Choice of 250 W, 600 W, 1,000 W and 1,200 W power supplies to support all Terrasat IBUCs.

Separate modules for Power Supply and IBUC simplify maintenance.



Terrasat's Outdoor BUC Power Supplies run on AC mains power and provide 48 VDC nominal power to the IBUC through a multi-conductor 16 AWG cable.

Power Supplies are packaged in environmentally protected outdoor enclosures. The form factor is compatible with Terrasat's universal mounting bracket.

Terrasat provides the detachable AC input connector, an Amphenol C01620 D003 110 12. The DC output connector type is a circular MS-type compatible. Terrasat provides a connectorized 5-foot (1.5 m) DC cable to go between the PSUI and the IBUC. A 10-foot (3 m) alternate is an available option.

Outdoor Power Supplies provide 48 VDC power for Terrasat IBUC's through 200 W C-band, 175 W X-band, 80 W Ku-band, 25 W Ka-band, and 25 W DBS-band.

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

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Electrical	PSUI-948-0250S-4	PSUI-948-0600-4	PSUI-948-1000-4	PSUI-948-1200-4
DC output voltage	48 V	51 V	51 V	51 V
Output volt. tolerance	± 2%	± 3%	± 4%	± 4%
Output rated current, nom.	5 Amp (250 W)	12 Amp (600 W)	20 Amp (1000 W)	24 Amp (1200 W)
Output ripple & noise	±0.5 V	±0.6 V	±2.0 V	±2.0 V
DC output power, nom.	250 W	600 W	1,000 W	1,200 W
Efficiency	85% at 250 W, 240 VAC 83% at 250 W, 120 VAC	87% at 600 W, 240 VAC 82% at 600 W, 120 VAC	89% at 1000 W, 220 VAC 86% at 1000 W, 120 VAC	89% at 1200 W, 220VAC
Input voltage range	100-240 VAC	100-240 VAC	100-240 VAC	200-240 VAC
Input Frequency	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
AC current, nominal	2.5 A rms @ 120 VAC and 250 W load	6 A rms @ 120 VAC and 600 W load	9.7 A rms @120 VAC and 1000 W load	6.0 A rms @220 VAC and 1200 W load
Power factor	≥0.95 @120 VAC, 250 W ≥0.95 @240 VAC, 250 W	>0.90 @120 VAC, 600 W >0.95 @240 VAC, 600 W	>0.95 @120 VAC/ 220 VAC, 1000 W	>.95 @220 VAC, 1200 W
Inrush current	15 A	15 A	30 A	30 A
Input leakage current	<2.5 mA@240 V, 63 Hz	<2.5 mA@240 V, 63 Hz	<2.5 mA@240 V, 63 Hz	<2.5 mA@240 V, 63 Hz
Output connector	Amphenol ACS 02E14S-6S (553)			
AC Input Connector	Amphenol C01620 C003 100 12			
Environmental				
Operating temperature	-40 to +60°C	-40 to +60°C	-40 to +55°C	-40 to +55°C
Humidity	100%	100%	100%	100%
Mechanical				
Weight	7 lbs. (3.2 kg)	9 lbs. (4.1 kg)	10 lbs. (4.5 kg)	10 lbs. (4.5 kg)
Dimensions	12.2 x 7.2 x 3.2 in. 310 x 183 x 81 mm	12.2 x 7.2 x 5.3 in. 310 x 183 x 134 mm	12.2 x 7.2 x 5.8 in. 310 x 183 x 147 mm	12.2 x 7.2 x 5.8 in. 310 x 183 x 147 mm
Applications	C-band to 25 W X-band to 25 W Ku-band to 16 W Ka-band to 16 W DBS-band to 10 W	C-band to 80 W X-band to 80 W Ku-band to 50 W Ka-band to 40 W DBS-band to 25 W	C-band 100 W to 125 W X-band 100 W to 125 W Ku-band 60 W to 80 W	C-band 150 W to 200 W X-band 150 W to 175 W

Specifications are subject to change without notice

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