



 **Brooks**
Utility Products
A Tyden Group Company

FIBER TO THE HOME



BROOKS' FIBER TO THE HOME CONNECTION

With significant changes taking place in the utility industry, municipal and cooperative utilities are actively searching for new sources of revenue by providing additional services. The rapidly growing market for fiber optic services has proven to be a viable means for utilities to do just that. Providing reliable and lightning fast service through dependable infrastructure is a common goal for utilities offering these services to their customers.

CHALLENGE

The installation of Fiber To The Home (FTTH) equipment at the home often requires scheduling of service calls and potentially the need to involve an electrician for providing installation of outdoor electrical equipment. These challenges increase the cost of providing the service and may reduce the overall subscribership success that a utility achieves. The use of Brooks Power Supply Interbase Adapters streamlines the installation process and provides a quick and easy way to provide electrical connections and grounding of the network equipment.

SOLUTIONS

We offer safe, reliable and easy-to-install products that support complex installation scenarios. Each of our Power Supply Interbase Adapters incorporates a UL-60950 recognized power supply and an easy means of grounding the equipment at the meter socket. This saves time and money by eliminating the need for new construction, additional enclosures, and additional grounding points. The AC/DC power supply is conveniently packaged in an adapter to be installed in the meter socket, and supplies DC power to the ONT and/or Battery Backup Unit.

EXPERIENCE

For more than 140 years Brooks has been solving utility industry problems with innovative product solutions and the introduction of this product for the FTTH market is an extension of our rich product heritage. Regardless of the complexity or power requirements, we have the capabilities and industry knowledge to provide you with a cost, effective high, quality solution.



SAFETY



SECURITY



RELIABILITY

12V 25 WATT ADAPTER

The Brooks 12V Power Source Interbase Adapter provides a solution for easy installation where a 12V power supply is needed. This adapter with a UL recognized integrated power supply is appropriate for several applications such as FTTH, Power Communications Equipment, and Gas & Electric Monitoring Equipment. Converts the utility line voltage to 12V, powering the ONT or back-up device. Includes a 10' power cord and Handi-Ring.

MODELS:

EK-4J-SP5060-C-S2 (Load Side Connection)

EK-4J-SP5060-U-S2 (Line Side Connection)



16V 25 WATT ADAPTER

Like the 12V adapter, this adapter includes a UL recognized integrated power supply used to power FTTH equipment, but converts the utility line voltage to 16V and powers the ONT or battery back-up. This adapter provides additional voltage for installations that require longer distances between the meter socket and the ONT. Includes Handi-Ring.

MODELS:

EK-4J-SP4995-C-S2 (Load Side Connection)

EK-4J-SP4995-U-S2 (Line Side Connection)



12V 75 WATT ADAPTER

This adapter was created for higher power applications requiring more than 25 Watts. The larger power supply accommodates the needs of MDU (Multi-Dwelling Unit) installations for FTTH, as well as monitoring equipment that requires a substantially larger power draw.

MODEL:

EK-4J-SP4955



FTTH FIELD INSTALLATION KIT

The most comprehensive offering in the Brooks FTTH portfolio, the Field Installation Kit offers a convenient, turnkey package including the 16V adapter w/ power supply, Cyber Power 12V battery back-up unit, 10' power cable, and Handi-Ring. The power supply adapter converts utility line voltage to 16V, which is used to charge and re-charge the battery back-up device.

MODELS:

1000-SP5027-C-S2 (Load Side Connection)

1000-SP5027-U-S2 (Line Side Connection)



SPECIFICATIONS

- For use with Optical Network Terminal (ONT) devices as part of a FTTH system
- Suitable for use in 120V 2-wire single phase form 1S meter sockets and 120/240V 3-wire single phase form 2S meter sockets up to 200 amps, 300V
- Current ratings are based upon UL test requirements where noted
- Configurable for line or load interconnection
- NEMA 3R rated

	FEATURE	12V ADAPTER	16V ADAPTER	12V 75W ADAPTER	FIELD INSTALLATION KIT
OUTPUT	DC VOLTAGE	12V	16VDC ±	12V	16VDC ±
	RATED CURRENT	2.1 AMPS	2.5 AMPS	6 AMPS	2.5 AMPS
	CURRENT RANGE	0 - 2.1 AMPS	0 - 2.5 AMPS	0 - 6 AMPS	0 - 2.5 AMPS
	RATED POWER	25.2 WATTS	40 WATTS	72 WATTS	40 WATTS
INPUT	VOLTAGE RANGE	88 - 26VAC 125 - 373VDC (withstand 300VAC surge for 5 sec. w/o damage)	100VAC - 240VAC	88 - 26VAC 125 - 373VDC (withstand 300VAC surge for 5 sec. w/o damage)	100VAC - 240VAC
	WORKING TEMP	-20 - +70°C (refer to derating curve)	-20 - +55°C	-20 - +70°C (refer to derating curve)	-20 - +55°C
	WORKING HUMIDITY	20 - 90% RH Non-condensing	0 TO 95°C Non-condensing	20 - 90% RH Non-condensing	0 TO 95°C Non-condensing
	STORAGE TEMP., HUMIDITY	-40 - +85°C 10 - 95% RH	0 TO 95°C Non-condensing	-40 - +85°C 10 - 95% RH	0 TO 95°C Non-condensing
ENVIRONMENT	SAFETY STANDARDS	UL 60950-1, TUV EN60950-1 Approved	UL 60950	UL 60950-1, TUV EN60950-1 Approved	UL 60950
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3	UL 60950	Compliance to EN55022 (CISPR22) Class B	UL 60950
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industrial level, criteria A	UL 60950	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industrial level, criteria A	UL 60950
SAFETY & EMC					

SPECIFICATIONS FOR CYBERPOWER BATTERY BACKUP

DC MODE	OUTPUT VOLTAGE	10V~12.1V @ 2a load	AC MODE	INPUT VOLTAGE RANGE	11.5 VDC ~ 16 VDC
	MAX OUTPUT POWER	2A (Max)		OUTPUT VOLTAGE RANGE	10V ~ 14.6V @ 2A Load
	EFFICIENCY AT 100% LOAD	>85% @ 100% Load		MAX OUTPUT POWER	1.25 W @ 16V / 0A Load
	POWER CONSUMPTION	0.75W@ 12V / 0A Load		POWER CONSUMPTION	1.25 W @ 16V / 0A Load
	BATTERY TYPE RATING	SKA Battery 12V / 0A Load			
	BATTERY LOW-ALARM	(Output Voltage) 10.8V ± 0.25V			
DISCHARGE CUT-OFF LEVEL	(Output Voltage) 10.V ± 0.25V				