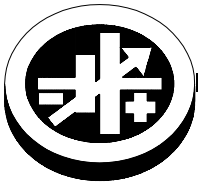


# INSTRUCTION SHEET



**KEPCO** An ISO 9001 Company.

**CABLE  
KIT  
219-0443**

## CABLE KIT NO. 219-0443 BOP 1000W MODELS (2) IN SERIES

### I. DESCRIPTION.

This kit contains the cables and terminations required to operate two identical 1000 Watt BOP High Power models in series, effectively doubling the output voltage capacity. Only identical models may be configured to operate in series.

This kit can be used with all 1000W BOP models that have revision levels as shown in Table 1. Earlier models that have been upgraded to permit multiple unit configurations must include the letter "A" following the revision number.

Refer to the associated technical manual supplied with the High Power BOP power supply for all instructions regarding installation and operation of multiple units in series.

**TABLE 1. REVISION LEVELS APPLICABLE TO THIS KIT**

Model	Revision	Revisions for Upgraded Units (Must include "A")
BOP 10-75MG	5 or higher	3A or 4A
BOP 20-50MG	8 or higher	5A, 6A or 7A
BOP 36-28MG	11 or higher	8A, 9A or 10A
BOP 50-20MG	7 or higher	5A or 6A
BOP 72-14MG	7 or higher	6A
BOP 100-10MG	6 or higher	2A or 4A

### II. SPECIFICATIONS

Table 3 lists the model parameters unique to a series combination of two identical 1000W BOP Power Supplies. Table 4 lists the general specifications for the series combinations listed in Table 3. For specifications not listed in Table 3, refer to the General Specifications provided in the associated technical manual supplied with each 1000W BOP power supply

**TABLE 2. EQUIPMENT SUPPLIED**

Item	Quantity	Purpose	Kepeco Part Number
Output Power cable (1.5 ft.)	1	Connects the OUTPUT terminal of Master to the COMMON terminal of Slave #1.	118-1112
Digital Control (Bitbus) Cable (1 ft)	1	Provides communication between master and slave.	118-1108
Protection Cable (1 ft.)	1	Provides interlock protection signals required for multiple unit operation.	118-1126
Series Control cable (1.5 ft.)	1	Provides control signals required for series operation.	118-1120
Protection - OUT Termination (Slave)	1	Provides proper termination for the slave connection to the Protection Cable.	195-0108
Protection - IN Termination (Master)	1	Provides proper termination for the master connection to the Protection Cable.	195-0107
Instruction Manual	1	Lists material supplied and specifications for multiple unit combination.	228-1486

**TABLE 3. MODEL PARAMETERS FOR TWO (2) IDENTICAL BOP 1000 WATT UNITS (SERIES)**

Model	d-c Output Range		Closed Loop Gain	
	$E_{O \text{ Max}}$	$I_{O \text{ Max}}$	Voltage Channel	Current Channel
BOP 10-75MG	±20V d-c	±75A d-c	2.0	7.5
BOP 20-50MG	±40V d-c	±50A d-c	4.0	5.0
BOP 36-28MG	±72V d-c	±28A d-c	7.2	2.8
BOP 50-20MG	±100V d-c	±20A d-c	10.0	2.0
BOP 72-14MG	±144V d-c	±14A d-c	14.4	1.4
BOP 100-10MG	±200V d-c	±10A d-c	20.0	1.0

**TABLE 4. GENERAL SPECIFICATIONS FOR TWO (2) IDENTICAL BOP 1000 WATT UNITS (SERIES)**

SPECIFICATION	RATING/DESCRIPTION	CONDITION
<b>INPUT CHARACTERISTICS</b>		
Current	176 Va-c	19A a-c
	264 Va-c	12.8A a-c
Leakage current	7mA a-c	230V a-c, 47-63 Hz
<b>OUTPUT CHARACTERISTICS</b>		
Programming resolution / accuracy	Voltage	14 bits / 0.2%
	Current	14 bits / 0.5%
	Voltage Limit	12 bits / 0.5%
	Current Limit	12 bits / 0.5%
Readback resolution / accuracy	Voltage	16 bits / 0.2%
	Current	16 bits / 0.5%