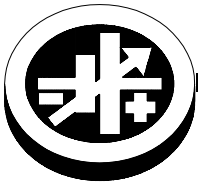


INSTRUCTION SHEET



KEPCO An ISO 9001 Company.

**CABLE
KIT
219-0449**

CABLE KIT NO. 219-0449

BOP 1000W MODELS (2) IN PARALLEL

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

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 1000W BOP power supply for all instructions regarding installation and operation of multiple units in parallel.

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

I. SPECIFICATIONS

Table 3 lists the model parameters unique to a parallel combination of two identical 1000W BOP Power Supplies. Table 4 lists the general specifications for the parallel 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 the Master to the OUTPUT terminal of the Slave #1.	118-1112
Common power cable (1.5 ft.)	1	Connects the COMMON terminal of the Master to the COMMON terminal of the Slave #1.	118-1129
Digital Control (Bitbus) Cable (1.5 ft.)	1	Provides communication between master and slave.	118-1108
Parallel Control Cable (1.5 ft.)	1	Provides control signals required for parallel operation.	118-1119
Protection Cable (1 ft.)	1	Provides interlock protection signals required for multiple unit operation.	118-1126

TABLE 2. EQUIPMENT SUPPLIED (CONTINUED)

Item	Quantity	Purpose	Kepeco Part Number
Master - IN Parallel Control Termination	1	Provides proper termination for Parallel Control Cable.	195-0109
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.	228-1485
Nut	2	Overcomes tight space for output cable connections. After securing bottom cable to output terminal stud using one nut, additional cables can be oriented for best layout and secured with separate nut.	102-0046

II. SPECIFICATIONS

Table 3 lists the model parameters unique to a parallel combination of two 1000W BOP Power Supplies. Table 4 lists the general specifications applicable all the parallel combinations listed in Table 3.

TABLE 3. MODEL PARAMETERS FOR TWO (2) HIGH POWER BOP 1000 WATT UNITS (PARALLEL)

Model	d-c Output Range		Closed Loop Gain	
	E _O Max	I _O Max	Voltage Channel	Current Channel
TWO 1000 WATT MODELS				
BOP 10-75MG	±10V d-c	±150A d-c	1.0	15.0
BOP 20-50MG	±20V d-c	±100A d-c	2.0	10.0
BOP 36-28MG	±36V d-c	±56A d-c	3.6	5.6
BOP 50-20MG	±50V d-c	±40A d-c	5.0	4.0
BOP 72-14MG	±72V d-c	±28A d-c	7.2	2.8
BOP 100-10MG	±100V d-c	±20A d-c	10.0	2.0

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

SPECIFICATION	RATING/DESCRIPTION	CONDITION
INPUT CHARACTERISTICS		
Current	176 Va-c	19.0A a-c maximum
	264 Va-c	13A a-c maximum
Leakage current	7mA a-c	230V a-c, 47-63 Hz
OUTPUT CHARACTERISTICS		
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% main or limit channel
	Current	16 bits / 0.5% main or limit channel