

INSTRUCTION SHEET



KEPCO An ISO 9001 Company.

**CABLE
KIT
219-0528**

CABLE KIT NO. 219-0528

BOP 26600 MODELS (2) IN PARALLEL

I. DESCRIPTION

This kit contains the cables and terminations required to operate two identical 750 Watt Model 26600 BOP power supplies in parallel, effectively multiplying the output current capacity by two.

Refer to the associated technical manual supplied with the 750 Watt Model 26600 BOP power supply for all instructions regarding installation and operation of multiple units in parallel.



CAUTION: Failure to install the ground cable supplied can result in damage to the power supply.

NOTE: To compensate for possible instability when paralleled units are operating at full current (250A) and changing from current mode to voltage limit mode, Kepco recommends adding a ceramic capacitance of 200 μ F/25V between **COM MON** and **COM S** terminals at the slave's rear panel terminal block. In addition, Kepco recommends using plastic ties to tie together the two power cables (P/N 118-1112) connecting master and slave units.

TABLE 1. EQUIPMENT SUPPLIED

Item	Quantity	Purpose	Kepeco Part Number
Output and Common Power cable	2	Connects the OUTPUT and COMMON terminal of the Master to the OUTPUT and COMMON terminals of the Slave.	118-1112
Parallel Control Cable	1	Provides control signals required for parallel operation.	118-1202
Protection Cable	1	Provides interlock protection signals required for multiple unit operation.	118-1126
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.	195-0117
Instruction Manual	1	Lists material supplied.	228-1634
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
Chassis Ground Cable	1	Connects chassis ground terminals of all units.	118-1272
Ground Cable mounting hardware	2 sets	Each set consists of eight parts, mounted in the following order: No. 10 star lockwasher P/N 103-0106 (at chassis), No. 10 flat washer P/N 103-0031, No. 10 split lockwasher P/N 103-0033, 10-32X3/8 nut P/N 102-0008, No. 10 flat washer P/N 103-0031, [lug(s) from ground cable], No. 10 flat washer P/N 103-0031, No. 10 split lockwasher P/N 103-0033, and 10-32X3/8 nut P/N 102-0008.	(See Purpose at left for part numbers)

II. SPECIFICATIONS

Table 2 lists the general specifications for the parallel combination of two identical 750 Watt Model 26600 BOP Power Supplies. For specifications not listed in Table 2, refer to the General Specifications provided in the associated technical manual supplied with the Model 26600 BOP power supply

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

SPECIFICATION		RATING/DESCRIPTION	CONDITION
INPUT CHARACTERISTICS			
Current	176 Va-c	15.0A a-c	maximum
	264 Va-c	10A a-c	maximum
Leakage current		7mA a-c	230V a-c, 47-63 Hz
OUTPUT CHARACTERISTICS			
d-c Output Range	E_O Max	$\pm 6V$ d-c	
	I_O Max	$\pm 250A$ d-c	
Closed Loop Gain	Voltage Channel	0.6	
	Current Channel	25.0	
Source/sink adjustment range	Voltage	-6V to +6V	
	Current	-250A to +250A	
Programming resolution / accuracy	Voltage	$\pm 6mV$	
	Current	$\pm 375mA$	
	Voltage Limit	$\pm 6mV$ linearity	$\pm 120mV$ Full Scale tolerance
	Current Limit	$\pm 375mA$ linearity	$\pm 2.75A$ Full Scale tolerance
Readback resolution / accuracy	Voltage	Same as individual unit	Independent readings for each unit
	Current	Same as individual unit	Independent readings for each unit
Current stabilization in current mode			
	Source effect	$\pm 125mA$	Min - max input voltage
	Load effect	$\pm 500mA$	0 to 100% load current
	Time effect (drift)	$\pm 125mA$	0.5 through 24 hours
	Temperature effect	$\pm 125mA / ^\circ C$	0° to 50°C
	Ripple and noise	$\pm 5A_{p-p}$	Includes switching noise.
Voltage stabilization in voltage mode		Same as individual unit	
Rise/Fall Time	Voltage	250 μ S/250 μ S	Nominal resistive load, measured from 10 to 90%, 0 to $\pm 100\%$ of rating
	Current	1.5mS/1.5mS	Short circuit, measured from 10% to 90%, 0 to $\pm 100\%$ of rating
Frequency bandwidth	Voltage	2KHz	Nominal resistive load, $E_{OPK} = E_{ONOM}$, $I_{OPK} = I_{ONOM}$ @ 60Hz
	Current	400Hz	Short circuit, $I_{OPK} = I_{ONOM}$ @ 60Hz