AN ISO 9001 COMPANY

KEPCO®

THE POWER SUPPLIER ™
SINCE 1946

KEPCO'S BOP MAGNET POWER SUPPLIES
4-QUADRANT CURRENT SOURCE

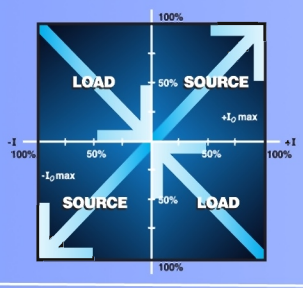
SMOOTH LINEAR ZERO-CROSSING
AUTOMATIC SOURCE / SINK OPERATION
ANALOG / DIGITAL CONTROL

AN ISO 9000 COMPANY

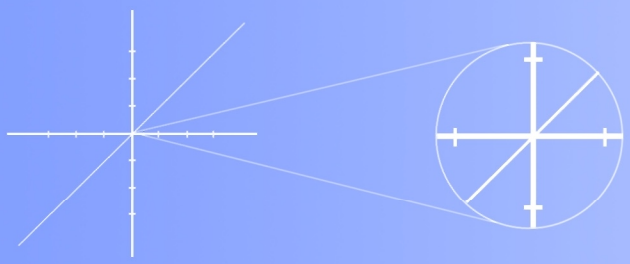
KEPCO®

THE POWER SUPPLIER™

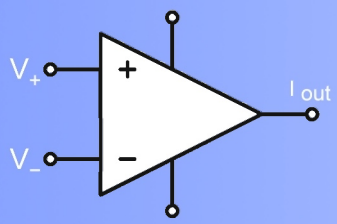
Absolute & Automatic Switching between Sourcing and Sinking / Load Modes



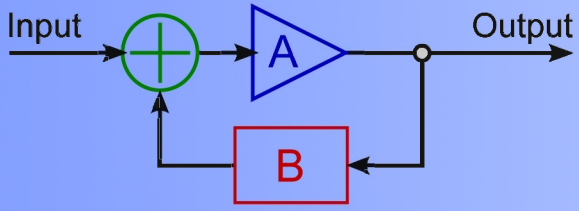
Smooth Zero Crossing - No Relay



Op Amp Functionality



L Option
Stable Compensation up to 1H Load



1000W Models

MODEL (1)	d-c OUTPUT RANGE		CLOSED LOOP GAIN		OUTPUT IMPEDANCE			
	E_O MAX. (2) (V d-c)	I_O MAX. (A d-c)	VOLTAGE CHANNEL G_V (V/V)	CURRENT CHANNEL G_I (A/V)	VOLTAGE MODE SERIES R (mΩ)	VOLTAGE MODE SERIES L (µH)	CURRENT MODE SHUNT R (Ω)	CURRENT MODE SHUNT C (µF)
1000 WATT								
BOP 6-125MG or ME	0 to ±6	0 to ±125	0.6	12.5	0.05	1.5	24	1150
BOP 10-100MG or ME	0 to ±10	0 to ±100	1.0	10.0	0.1	2.0	50	1100
BOP 10-75MG or ME	0 to ±10	0 to ±75	1.0	7.5	0.13	2.0	67	976
BOP 20-50MG or ME	0 to ±20	0 to ±50	2.0	5.0	0.40	8.3	200	371
BOP 25-40MG or ME	0 to ±25	0 to ±40	2.5	4.0	0.63	15.8	313	165
BOP 36-28MG or ME	0 to ±36	0 to ±28	3.6	2.8	1.30	25	640	103
BOP 50-20MG or ME	0 to ±50	0 to ±20	5.0	2.0	2.50	50	1250	55
BOP 72-14MG or ME	0 to ±72	0 to ±14	7.2	1.4	5.14	104	2570	33
BOP 100-10MG or ME	0 to ±100	0 to ±10	10.0	1.0	10.0	163	5000	16

(1) Models with MG suffix include built-in standard GPIB and RS 232 digital interfaces.
Models with ME suffix include built-in standard LXI Ethernet (LAN) and RS 232 digital interfaces.

(2) When connecting active loads, the steady-state voltage of the active load must not exceed the maximum voltage rating of the BOP. Otherwise the overvoltage protection will shut down the power supply.

MODEL (1)	d-c OUTPUT RANGE (2)		CLOSED LOOP GAIN		RIPPLE AND NOISE	
	E_O MAX. (3) (V d-c)	I_O MAX. (A d-c)	VOLTAGE CHANNEL G_V (V/V)	CURRENT CHANNEL G_I (A/V)	VOLTAGE MODE	CURRENT MODE
1000 WATT						
BOP 10-100GL or EL	0 to ±10	0 to ±100	1.0	10.0	0.02%	0.01%
BOP 20-50GL or EL	0 to ±20	0 to ±50	2.0	5.0	0.02%	0.01%
BOP 36-28GL or EL	0 to ±36	0 to ±28	3.6	2.8	0.02%	0.01%
BOP 50-20GL or EL	0 to ±50	0 to ±20	5.0	2.0	0.02%	0.01%

(1) Models with GL suffix include built-in standard GPIB and RS 232 digital interfaces.
Models with EL suffix include built-in standard LXI Ethernet (LAN) and RS 232 digital interfaces.

(2) For other Volt-Ampere combinations, please consult factory.

(3) When connecting active loads, the steady-state voltage of the active load must not exceed the maximum voltage rating of the BOP. Otherwise the overvoltage protection will shut down the power supply.

100W, 200W, 400W Models

MODEL (1) (2)	d-c Output Range		Closed Loop Gain		Output Impedance			
	E_O max	I_O max	Voltage Channel G_V (V/V)	Current Channel G_A (A/V)	Series R	Series L (3)	Shunt R	Shunt C (4)
100 WATT MODELS								
BOP 5-20D (5)	±5V	±20A	0.5	2.0	10µΩ	4µH	5kΩ	10µF
BOP 20-5D	±20V	±5A	2.0	0.5	80µΩ	20µH	40kΩ	0.05µF
BOP 50-2D	±50V	±2A	5.0	0.2	0.5mΩ	100µH	50kΩ	0.05µF
BOP 100-1D	±100V	±1A	10.0	0.1	2.0mΩ	200µH	100kΩ	0.05µF
200 WATT MODELS								
BOP 5-30D (5)	±5V	±30A	0.5	3.0	10µΩ	4µH	5kΩ	15µF
BOP 20-10D	±20V	±10A	2.0	1.0	40µΩ	40µH	20kΩ	0.05µF
BOP 36-6D	±36V	±6A	3.6	0.6	120µΩ	20µH	36kΩ	0.03µF
BOP 50-4D	±50V	±4A	5.0	0.4	0.25mΩ	50µH	50kΩ	0.02µF
BOP 72-3D	±72V	±3A	7.2	0.3	0.48mΩ	60µH	72kΩ	0.05µF
BOP 100-2D	±100V	±2A	10.0	0.2	1.0mΩ	60µH	100kΩ	0.03µF
BOP 200-1D (5)	±200V	±1A	20.0	0.1	4.0mΩ	1.2mH	200kΩ	0.03µF
400 WATT MODELS								
BOP 20-20D	±20V	±20A	2.0	2.0	20µΩ	10µH	20kΩ	0.5µF
BOP 36-12D	±36V	±12A	3.6	1.2	60µΩ	50µH	36kΩ	0.4µF
BOP 50-8D	±50V	±8A	5.0	0.8	125µΩ	100µH	50kΩ	0.15µF
BOP 72-6D	±72V	±6A	7.2	0.6	240µΩ	200µH	72kΩ	0.1µF
BOP 100-4D	±100V	±4A	10.0	0.4	500µΩ	200µH	100kΩ	0.1µF

(1) For factory installed digital interfaces add -488 for GPIB interface or -802E for Ethernet/LAN interface. For models optimized for heavy inductive loads add suffix "L" and for models optimized for heavy capacitive loads add suffix "C".

(2) Analog meters are no longer available, suffix quot;D" indicates digital meters.
NOTE: "D" and "M" BOP's are identical except for the meters and are fully interchangeable.

(3) For determining dynamic impedance in voltage mode.

(4) For determining dynamic impedance in current mode.

(5) Same size as 400W models.

200W, 400W Dual Channel Models

MODEL (1)	d-c OUTPUT RANGE		CLOSED LOOP GAIN		OUTPUT IMPEDANCE			
	E_O MAX.	I_O MAX	VOLTAGE CHANNEL G_V (V/V)	CURRENT CHANNEL G_I (A/V)	VOLTAGE MODE SERIES R	VOLTAGE MODE SERIES L	CURRENT MODE SHUNT R	CURRENT MODE SHUNT C
200 WATTS (100 WATTS/CHANNEL)								
BOP 2X5-20DE	0 to ±5V	0 to ±20A	0.5	2.0	10µΩ	4µH	5kΩ	30.0µF
BOP 2X20-5DE	0 to ±20V	0 to ±5A	2.0	0.5	80µΩ	20µH	40kΩ	0.05µF
BOP 2X50-2DE	0 to ±50V	0 to ±2A	5.0	0.2	0.5mΩ	100µH	50kΩ	0.05µF
BOP 2X100-1DE	0 to ±100V	0 to ±1A	10.0	0.1	2.0mΩ	200µH	100kΩ	0.05µF
400 WATTS (200 WATTS/CHANNEL)								
BOP 2X20-10DE	0 to ±20V	0 to ±10A	2.0	1.0	40µΩ	50µH	20kΩ	0.01µF
BOP 2X36-6DE	0 to ±36V	0 to ±6A	3.6	0.6	120µΩ	50µH	36kΩ	0.01µF
BOP 2X50-4DE	0 to ±50V	0 to ±4A	5.0	0.4	0.25mΩ	100µH	50kΩ	0.05µF
BOP 2X72-3DE	0 to ±72V	0 to ±3A	7.2	0.3	0.48mΩ	200µH	72kΩ	0.05µF
BOP 2X100-2DE	0 to ±100V	0 to ±2A	10.0	0.2	1.0mΩ	200µH	100kΩ	0.05µF

(1) Options - L: Inductive load optimization, C: Capacitive load optimization

For other models please consult factory

hq@kepcopower.com