

# INSTRUCTION MANUAL



**KEPCO** An ISO 9001 Company.

**KIT**  
**219-0668**

## POWER SUPPLY PROTECTION DIODE KIT 400V, 20A MAXIMUM:

### 1. DESCRIPTION

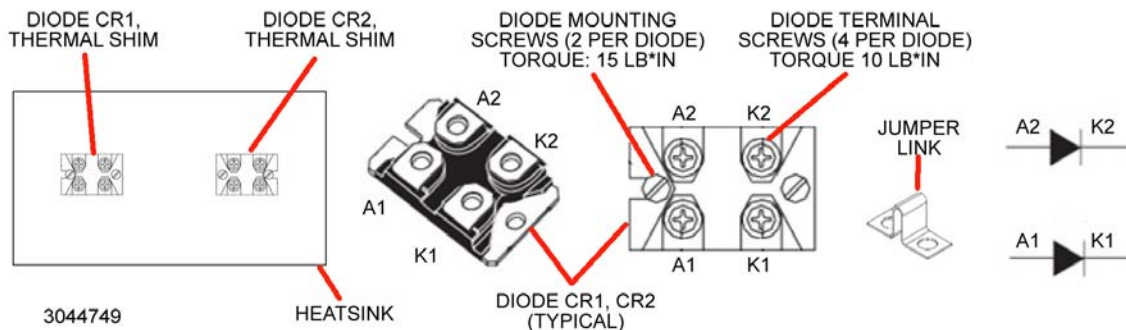
Protection diode KIT 219-0668 can be used for protection of power supplies with rated voltage up to 400V, rated current up to 20A. The diodes included protect the power supply from damage due to a) back EMF voltage generated by inductive loads or b) reversed polarity connections in case of battery charging.

### 2. MATERIAL SUPPLIED

Material supplied is listed in Table 1 and shown in Figure 1,.

**TABLE 1. MATERIAL SUPPLIED**

MATERIAL	QUANTITY
Heatsink P/N 136-0451	1
Diode P/N 124-0693	2
Thermal Shim P/N 189-0577	2
Diode Mounting Screws P/N 101-0520	4
Diode Terminal Screws P/N 1010463	8
Jumper Link P/N 107-0020	4
Jumper Link P/N 107-0413	4
Ring Lug P/N 107-0225	6
Instruction Sheet P/N 228-2008	1



**FIGURE 1. KIT 219-0668 COMPONENTS**

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### 3. INSTALLATION INSTRUCTIONS

1. Mount the diodes over the thermal shims and secure to the heatsink using four diode mounting screws supplied (see Figure 1); torque to 15 lb\*in.
2. Install two jumper links between terminals K2 and K1 of CR1 and CR2. Install two jumper links between terminals A2 and A1 of CR1 and CR2. Form links as necessary for holes to line up.
3. Crimp ring lugs supplied to  $\pm$ output and  $\pm$ load wires. Recommended gauge is AWG #12.
4. Crimp ring lugs supplied to jumper wire to reach from CR1 terminal K1 to CR2 terminal K2. Recommended gauge is AWG #10.
5. Wire the connections as shown in Figure 2. Secure ring lugs to diode terminals using diode terminal screws, torque to 10 lb\*in.
  - a. Wire Load+ to CR2 K2 terminal.
  - b. Wire OUT+ to CR1 A2 terminal.
  - c. Wire CR1 K1 terminal to CR2 K2 terminal.
  - d. Either wire OUT- and LOAD- to CR2 A1 terminal or connect LOAD- to power supply OUT- terminal.
6. Configure power supply for local sensing: S+ connected to OUT+ and S- connected to power supply OUT-. This can be done on most Kepco power supplies by utilizing the the links (provided with the power supply) on the power supply terminal block.

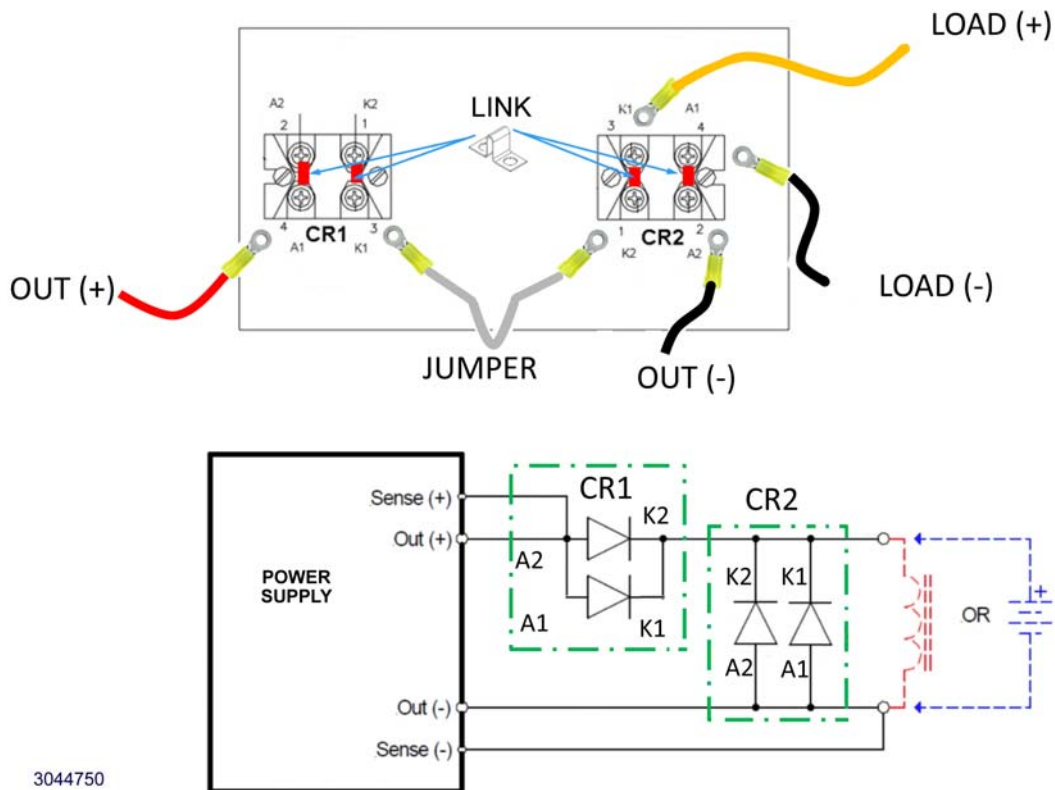


FIGURE 2. KIT 219-0668 INSTALLATION