INSTRUCTION MANUAL

KEPCO An ISO 9001 Company.

KIT 219-0669

POWER SUPPLY PROTECTION DIODE KIT 400V, 10A MAXIMUM:

1. DESCRIPTION

Protection diode KIT 219-0669 can be used for protection of power supplies with rated voltage up to 400V, rated current up to 10A. 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	1
Thermal Shim P/N 189-0577	1
Diode Mounting Screws P/N 101-0520	2
Diode Terminal Screws P/N 1010463	4
Jumper Link P/N 107-0020	1
Jumper Link P/N 107-0413	1
Ring Lug P/N 107-0225	4
Instruction Sheet P/N 228-2007	1

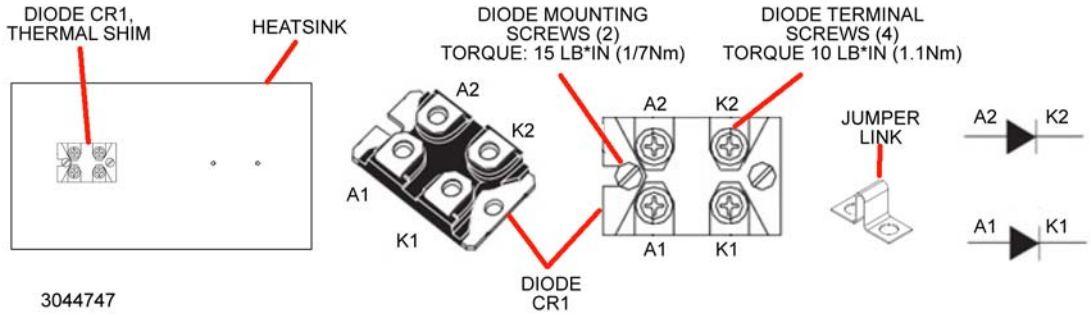

FIGURE 1. KIT 219-0669 COMPONENTS

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3. INSTALLATION INSTRUCTIONS

1. Mount the diode over the thermal shim and secure to the heatsink using two diode mounting screws supplied (see Figure 1); torque to 15 lb*in (1.7Nm).
2. Install jumper link between terminals K2 and K1. Form link as necessary for holes to line up.
3. Crimp ring lugs supplied to ±output and ±load wires. Recommended gauge is AWG #12.
4. Wire the connections as shown in Figure 2. Secure ring lugs to diode terminals using diode terminal screws, torque to 10 lb*in (1.1Nm).
   a. Wire Load+ to K2 terminal.
   b. Wire OUT+ to A2.
   c. Either wire OUT– and LOAD– to A1 or connect LOAD– to power supply OUT– terminal.
5. 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.

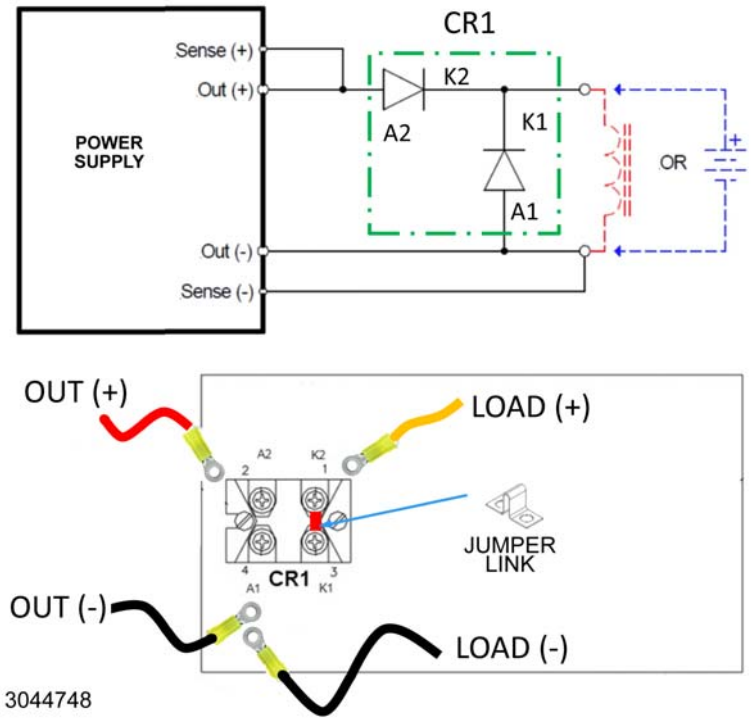

FIGURE 2. KIT 219-0669 INSTALLATION