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(1) The system shall detect and interrupt arcing faults resulting from a failure in the intended continuity (Series Arc Faults) of a conductor, connection, module, or other system component in the dc PV source and output circuits.

(2) The system shall disable or disconnect one of the following:

- a. Inverters or charge controllers connected to the fault circuit when the fault is detected
- b. System components within the arcing circuit

(3) The system shall require that the disabled or disconnected equipment be manually restarted.

(4) The system shall have an annunciator that provides a visual indication that the circuit interrupter has operated. This indication shall not reset automatically.

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Humidity Leakage Voltage surge Environmental sequence Arc fault detection Unwanted tripping Inhibition Temperature Overvoltage Overload Endurance Dielectric Withstand Abnormal Short circuit	Corrosion Test Crushing Strain relief Mechanical Resistance to Environmental Noise Electrostatic discharge Radiated EMI Fast transients Voltage surge Induced RF fields Voltage dips Surge current Abnormal overvoltage
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Table 14.3 Arcing Tests and Clearing Times					
Current (Amps)	Voltage (Volts)	Arcing (Watts)	Electrode Gap (Inches)	Clearing Time (Seconds)	
7	43	300	1/16	2	
7	71	500	3/16	1.5	
14	46	650	1/8	1.2	
14	64	900	1⁄4	0.8	
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<section-header> Hey Wait a Minute! PV AFCIS Are Not Here Yet! NEC 90.4 Enforcement The NEC includes a protection clause for new requirements when new protection products are not commercially available at the time of publication. 90.4 This Code may require new products, constructions, or materials that may not yet be available at the time the Code is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this Code adopted by the jurisdiction.





