

ARC FLASH HAZARD PPE CATEGORIES FOR DC SYSTEMS

Equipment – DC Systems	Arc Flash PPE Category	Arc Flash Boundary
Storage batteries, dc switchboards, and other dc supply sources 100 V > Voltage < 250 V Parameters: Voltage: 250 V Maximum arc duration and working distance 2 sec @18 inches		
Short circuit current < 4 kA	1	3 ft.
4 kA ≤ short-circuit current < 7 kA	2	4 ft.
7 kA ≤ short-circuit current < 15 kA	3	6 ft.
Storage batteries, dc switchboards, and other dc supply sources 250 V ≤ Voltage ≤ 600 V Parameters: Voltage: 600 V Maximum arc duration and working distance 2 sec @18 inches		
Short-circuit current 1.5 kA	1	3 ft.
1.5 kA ≤ short-circuit current < 3 kA	2	4 ft.
3 kA ≤ short-circuit current < 7 kA	3	6 ft.
7 kA ≤ short-circuit current < 15 kA	4	8 ft.

Note: A conservative value for the DC short circuit current is calculated by 10 times the 1 minute ampere rating of the battery. A more accurate value for the short circuit current can be obtained from the battery manufacturer.