



Name _____

Advanced Photovoltaic Systems

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AET 230-8204

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1. The article in the National Electric Code that is dedicated to PV is
 - a. Article 720 Sections A,B&D
 - b. Article 520
 - c. Every Article
 - d. Article 690

2. Everything else being the same, if you increase the voltage
 - a. You increase the voltage drop percentage
 - b. You decrease the voltage drop percentage
 - c. You have to increase the wire size
 - d. You should increase the amperage by 120%

3. This would require the greatest ampacity derating
 - a. A PV system in Antarctica
 - b. Wire in conduit on a roof in Palm Springs with 3 other current carrying conductors
 - c. Wire not in conduit on a roof in Palm Springs
 - d. Ampacity is not derated for temperature

4. The 120% rule means
 - a. You can have 2 sources feeding the panel busbar that exceed the busbar rating
 - b. Your busbar fuses should be 120% derated for ampacity
 - c. The sum of the solar breaker and the main breaker must be 120% less than the busbar rating.
 - d. Your parallel sources of AC power can never exceed the busbar rating

5. 90C rated wire is
 - a. Wire that should never get hotter than 90C if you did everything right
 - b. Has the same ampacity for all temperatures under 90C
 - c. Not used in PV systems
 - d. Always black