Quiz – Wire Sizing

Name		
ranic		

System Specifications:

20 modules

2 strings – connected directly to the inverter

ISC of each module: 8A

USE-2 from modules to Junction Box, THWN-2 from J-Box to Inverter

Ambient temperature of conductors = 45COver current device terminal rating = 75C

Ambient temperature of over current device = 40C

Size the Wire from the J-Box to Inverter.

Use the following steps to size your wire – show your calculations:

- 1. Circuit current.
- 2. Over current device rating.
- 3. Cable sizing.
- 4. Cable derating.
- 5. Ampacity vs over current device.
- 6. Device terminal compatibility.
- 7. Device Mounting.