NABCEP.PVIP.v2026-05-02.q63

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NEW QUESTION: 1
Which load path connections need to be analyzed when determining live and dead loads on a PV array system installed directly to a metal seam roof?
A. Module to rail to metal seam roof, metal seam roof to top plate system
B. Module to rail to metal seam roof, metal seam roof sheathing/rather system.
C. Rail to metal seam roof, metal seam roof to top plate, top plate to wall system
D. Module to rail, rail to roof sheathing, roof sheathing to wall, wall to base plate/foundation system
Answer: (SHOW ANSWER)

NEW QUESTION: 2
A 10 kW PV array uses 300W modules with a Voc of 40V and an Isc of 9A. The inverter has a maximum DC input of 600V and 25A. What is the maximum number of modules that can be connected in a single string?
A. 12
B. 14
C. 15
D. 16
Answer: C (LEAVE A REPLY)

NEW QUESTION: 3
A PV array's tilt is 15° at a latitude of 35°N. What is the annual energy loss compared to optimal tilt?
A. 3-5%

B. 1-2%
C. 10-12%
D. 6-8%
Answer: A (LEAVE A REPLY)

NEW QUESTION: 4
When commissioning a PV system, which test is most critical to verify proper operation of the array before connecting to the inverter?
A. Short-circuit current test
B. Ground-fault detection test
C. Open-circuit voltage test
D. Insulation resistance test
Answer: D (LEAVE A REPLY)

NEW QUESTION: 5
A PV system combiner box contains six source circuits, each with an Isc of 8A. The output conductor is 6 AWG THWN-2 copper rated at 90°C. What is the maximum allowable OCPD rating per NEC?
A. 60A
B. 80A
C. 70A
D. 50A
Answer: A (LEAVE A REPLY)

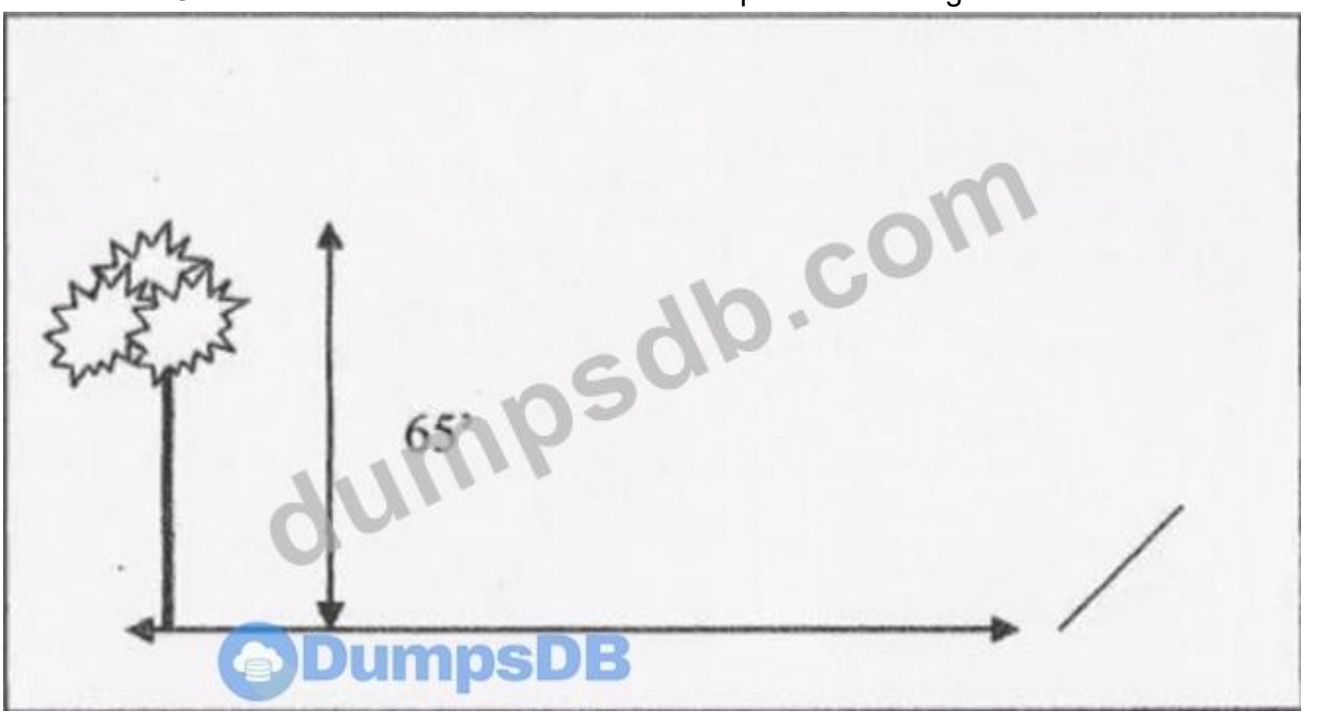
NEW QUESTION: 6
A homeowner is weighing the PV module options for a roof-mounted solar array. Which is a correct option to present to the homeowner?
A. Polycrystalline modulesare more shade-tolerance than eitheramorphous or monocrystalline modules and allow a larger array to be installed, including in area where shading could be seasonally problematic.
B. Microinverters can be installed with either polycrystalline or monocrystalline modules, negating the need for rapid shutdown compliance.
C. Building-integrated PV shingles will be flush or nearly flush with other shingles, but the electrical energy produced will be less than polycrystalline or monocrystalline modules.
D. Rapid shutdown requirements within 1 ft of the array boundary.
Answer: (SHOW ANSWER)

NEW QUESTION: 7
A system's performance ratio (PR) is calculated as 0.85. If the array capacity is 10 kW and PSH is 5, what is the daily AC output?
A. 40 kWh

B. 45 kWh
C. 50 kWh
D. 42.5 kWh
Answer: D (LEAVE A REPLY)

NEW QUESTION: 8
A module's power drops by 0.5%/year. After 10 years, what is the output if the original power is 320W?
A. 316W
B. 288W
C. 310W
D. 304W
Answer: D (LEAVE A REPLY)

NEW QUESTION: 9
A PV system is located at 41 N latitude. The sun angle is 23 on December 21 at solar noon. Assuming that the
65 ft tree is directly south of the PV array and will grow 20 ft. over the life of the PV system, what is the MNIMUM distance the tree to the button of the prevent shading?



A. 153 ft.
B. 98 ft.
C. 201 ft.
D. 167 ft.
Answer: C (LEAVE A REPLY)

NEW QUESTION: 10

A module's STC power is 300W, with a temperature coefficient of -0.40%/°C. At 65°C, what is the power loss percentage?

A. 16%

B. 18%

C. 12%

D. 14%

Answer: (SHOW ANSWER)

NEW QUESTION: 11

An installer is hired to troubleshoot a 10-year-old roottop system with open-circuitvoltage of 300V. The ground-fault detection (GFD) device has tripped. The insulation on the exposed source circuit cables has deterlorated with multiple cracks and has no flexibility. Which concern is the MOST likely safely issue when servicing this array?

A. Ungrounded conductors are conducing current event the ground-fault device has activated.

B. Cracked insulation has allowed water intrusion that resulted in oxidation of the copper conductors.

C. Short-circuit current is present at the PV source-circuit terminals of the disconnect device because of electrical leakage.

D. Insulation has become an electrical conductor since it has changed its composition.

Answer: D (LEAVE A REPLY)

NEW QUESTION: 12

A PV system uses 10 AWG USE-2 wire for a 150-foot source circuit run with an Isc of 8A. The terminals are rated at 75°C. What is the ampacity of the conductor after applying NEC temperature and conduit fill adjustments at 35°C?

A. 30A

B. 40A

C. 35A

D. 45A

Answer: (SHOW ANSWER)

NEW QUESTION: 13

On a PV system larger than 100kw, which PV array design will provide the HIGHEST degree of performance monitoring.

Granularity, and ease of troubleshooting performance issues?

A. Central inverter with data acquisition system located at the inverter.

B. Multiple-string inverter system with monitored dc-to-dc converters located at each module

C. Multiple-string inverter system with data acquisition system located at each inverter.

D. Multiple-string inverter system with data acquisition system located at each dc combiner

Answer: D (LEAVE A REPLY)

NEW QUESTION: 14
An installer is using 1/2 in lag boits to secure roof-monitoring hardware to rafters through a roof deck. Which of the following should the installer predrill?
A. A pilot hole one-half the length of the bolt
B. A 5/16 in pilot hole through the roof into the rafter
C. A pilot hole one-fourth the length of the bolt
D. A 1/8 in, pilot hole through the roof into the rafter
Answer: B (LEAVE A REPLY)

NEW QUESTION: 15
A PV system is designed for a location with a peak sun hours (PSH) value of 4.5. The daily load is 18 kWh, and the system efficiency is 80%. What is the minimum array size required in kW?
A. 7.5 kW
B. 6.0 kW
C. 5.0 kW
D. 4.0 kW
Answer: C (LEAVE A REPLY)

NEW QUESTION: 16
A rooftop PV system is proposed for a commercial building with a membrane roof. The structural engineer specifies a maximum allowable dead load of 5 psf. The PV modules weigh 3 psf, and the racking adds 1.5 psf.
What additional load can be added without exceeding the limit?
A. 1.0 psf
B. 0 psf
C. 0.5 psf
D. 1.5 psf
Answer: C (LEAVE A REPLY)

NEW QUESTION: 17
An installer is using ½ in lag boits to secure roof-monitoring hardware to rafters through a roof deck. Which of the following should the installer predrill?
A. A pilot hole one-half the length of the bolt

B. A 1/8 in, pilot hole through the roof into the rafter
C. A pilot hole one-fourth the length of the bolt
D. A 5/16 in pilot hole through the roof into the rafter
Answer: D (LEAVE A REPLY)

NEW QUESTION: 18
According to the NEC, where on a residential PV system MUST the labeling describing the type of rapid shutdown be located?
A. On the rapid shutdown initiation device.
B. On or no more than 1 m (3. 3 ft) from the service disconnecting meant
C. A close as practicable to the PV array requiring rapid shutdown
D. At point on the residence designated by the AKJ and fire marshal
Answer: A (LEAVE A REPLY)

NEW QUESTION: 19
A PV system includes a 600V DC disconnect with a fault current rating of 10 kA. The available fault current from the inverter is 12 kA. What must be done to comply with NEC 110.10?
A. Reduce the array size to lower fault current
B. No action needed; the rating is sufficient
C. Replace the disconnect with a 15 kA-rated unit
D. Install a current-limiting fuse upstream
Answer: C (LEAVE A REPLY)

NEW QUESTION: 20
A 15 kW array has a PR of 0.88 and 1600 kWh/m²/year insolation. What is the annual output?
A. 24,000 kWh
B. 21,120 kWh
C. 19,800 kWh
D. 22,440 kWh
Answer: B (LEAVE A REPLY)

NEW QUESTION: 21
A 20 kW system has a measured output of 18 kW at STC. What is the total system loss?
A. 15%
B. 10%
C. 20%
D. 5%
Answer: B (LEAVE A REPLY)

NEW QUESTION: 22

A bank of batteries with capability of supplying 250A and a maximum voltage of 325V is housed in a concrete structure in a very humid location. There is service access alsie between rows of batteries. What is the REQUIRED safety distance between the rows of batteries.

A. 3-1/2If the building is equipped with a dehumidifier and the batteries are on insulting surfaces

B. 6 ft.When the floor is insulated and no dehumidifier is installed.

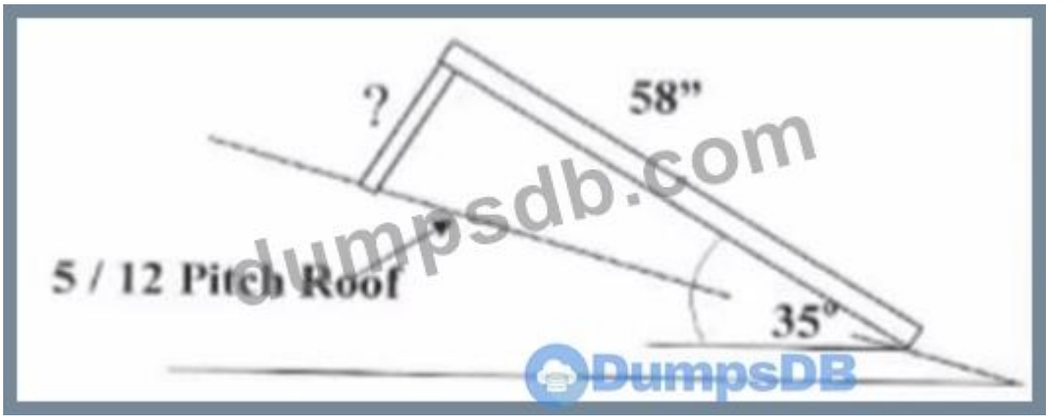
C. 3 ft. when insulted conducted conductors are used between terminals.

D. 4 ftWhether or not the building is equipped with a dehumidifier or the batteries are insulting surfaces

Answer: C (LEAVE A REPLY)

NEW QUESTION: 23

A PV array with 58 in. X 38 in modules in portrait orientation is to be mounted at a 35 tiit angle on a shingle roof that has a 5:12 pitch. Assuming the support leg is attached to the top of the modules and is perpendicular to its face, what is the length of the support leg for the modules?



A. 12.73 in.

B. 40.50 in.

C. 24.24 in.

D. 18.25 in.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 24

A ground resistance measurement on a newly installed grounding electrode indicates a resistance of 130. The earth connection may be improved by connecting the existing electrode to a:

A. Supplement 1/4 in, in thick aluminumplate electrode buried 30 in. down and located 7 ft, away.

B. Supplemental copper plated steel grounding electrode located 8 ft, away.

C. Supplemental grounding electrode located 5 ft, away.

D. Buried water piping system using 40 ft. of 2 in. PVC piping located 10 ft awat.

Answer: (SHOW ANSWER)

NEW QUESTION: 25

A connector not listed to be used in a concealed location and being used as a disconnect for PV equipment shall comply with which of the following?
A. The grounding member shall be last to make and first to break contact with the mating connector
B. The connector shall be installed so as to guard against inadvertent with live parts by persons.
C. The connector shall have a non-polarized configuration.
D. The grounding member shall be interconnectchangeable with receptacles in other electrical systems.
Answer: B (LEAVE A REPLY)

NEW QUESTION: 26
A PV system is installed in a location with an average annual ambient temperature of 30°C. If the module's NOCT (Nominal Operating Cell Temperature) is 45°C, what is the expected cell temperature under standard operating conditions (800 W/m² irradiance)?
A. 60°C
B. 55°C
C. 50°C
D. 45°C
Answer: (SHOW ANSWER)

NEW QUESTION: 27
A PV system was installed in July 2017 under the 2017 NEC. The system has a string inverter located inside a garage on a wall 10 ft, from the outside wall and 1oft, from the ac load center at the point of utility connection.
The PV system has a PV array on the roof. Which of the following represents the PV rapid shutdown system requirement for the controlled PV system conductors associated with this PV array?
A. More than 10ft, from the PV array or more than 5 ft. in length inside the building
B. More than 1 ft, from the PV array or more than 3 ft, from the point of entry of the building.
C. Within the array boundary and more than 3.ft from the point of entry of the building.
D. More than 1 ft, from the VP array and more than 5 ft. In length the building.
Answer: (SHOW ANSWER)

NEW QUESTION: 28
Which of the following is the required MINIMUM width of the working space In front of ac disconnect equipment?
A. 30 in. from all exposed live parts and terminals
B. 36 in. from the right and left edges of the inverter
C. 30 in. or the width of the ac disconnect, whichever is greater
D. 36 in. from the top of the ungrounded inverter terminals
Answer: (SHOW ANSWER)

NEW QUESTION: 29
A PV array is located 8 feet from a property line. What is the minimum height above ground for exposed DC conductors per NEC 690.31?
A. 10 feet
B. 12 feet
C. 8 feet
D. 15 feet
Answer: A (LEAVE A REPLY)

NEW QUESTION: 30
Aerial lifts used to hoist equipment and PV modules to roof levels may be fieldmodifiedfor uses other than those intended by the manufacturer with which approval or certification?
A. Certified in writing by the manufacturer or an NRTL
B. Tested and approval by the distributor of the equipment
C. Approval by the local AHJ for meeting safely regulations
D. Certified via the state material handling safely statutes
Answer: (SHOW ANSWER)

NEW QUESTION: 31
What is an arc-flash boundary?
A. The approach limit distance within which inadvertent movement exposes personnel to increase ris due to electrical arc-over potential.
B. The approach limit distance from energized electrical equipment within which a person is considered to be exposed to full circuit voltage.
C. The approach limit distance within which a person could receive a second-degree burn in the event that an electrical arc flash were to occur
D. The distance within which qualified personnel can safely perform bare-handed work on exposed energized electrical equipment operating at 50 volts or more.
Answer: A (LEAVE A REPLY)

NEW QUESTION: 32

An installer is terminating PV conductors in a combiner box. What is the minimum torque specification for a
10 AWG connection if not specified by the manufacturer?
A. 40 in-lb
B. 10 in-lb
C. 20 in-lb
D. 30 in-lb
Answer: (SHOW ANSWER)

NEW QUESTION: 33
An 8KWsc roof-mounted array is placed on a school building. The inverter is located within 1 ft, of the array boundary and has an integrated ac-and dc-disconnecting switch. The system is to be connected to a 400A load center, protected by a 400A main breaker. Which of the following MUST be included to meet NEC requirements?
A. A readily accessible dc disconnect with rapid shutdown initiation device permanently labeled
B. An ac-disconnect label with the location of the rooftop dc-disconnect switch.
C. A rapid shutdown initiationdevice operating contractor within 1 ft, of the array to de-energize the dc subarrays
D. A readily accessible ac-disconnecting switch, who location is identified on the system directory
Answer: D (LEAVE A REPLY)

NEW QUESTION: 34
Which insulation color is allowed for a current-carrying roottop dc conductor on a functionally grounded 6kw PV system?
A. Green
B. Green/yellow
C. White
D. Red
Answer: D (LEAVE A REPLY)

NEW QUESTION: 35
A PV system designer is selecting an inverter for a 12 kW array with a maximum power point voltage range of 300-450V DC. Which inverter specification is most critical to verify compatibility?
A. Inverter efficiency rating
B. Nominal AC output voltage
C. Maximum AC output current
D. DC input voltage operating range
Answer: D (LEAVE A REPLY)

NEW QUESTION: 36

An installer was asked to provide a means to measure the voltage of each battery in a system. The bank is located 50 ft.
From the data logger. The installer will be using shielded. Twisted pairs of instrumentation wiring, all run in the bundle a conduct.
The signals are connected to isolated and ungrounded inputs at a data logger. Which safely precaution is MOST needed to protect the instrumentation wiring?
A. An appropriately rated and sized of resistive elements for each twisted pair be located at, or very near to, the data logger terminals
B. Individual nonfused disconnects are required for each set of wiringbecause all of the signals must be isolated from each other.
C. The instrument wiring must be large (larger than # 18 AWG) to handle current from each battery and must be a double- insulated type.
D. Each set of twisted pairs must be provided with properly rated fuses that are physically located at the battery.
Answer: D (LEAVE A REPLY)

NEW QUESTION: 37
Which circuits are on the utility side of a service point?
A. Service entrance conductors
B. Service lateral
C. Service conductors
D. Feeders
Answer: C (LEAVE A REPLY)

NEW QUESTION: 38
A PV system equipped with rapid shutdown requires a label stating "RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM".
Which is the BEST description of where this label is required?
A. On or within 3 ft. of the ac disconnect
B. On or within 3 ft. of the ac disconnect
C. On or within 3 ft. of the ac disconnect
D. On or within 3 ft. of the ac disconnect
Answer: A (LEAVE A REPLY)

NEW QUESTION: 39
A7KW/ 14 KWh multimode systemhas been installed at a residence, ac-couple with the customer's existing
6.7kwh ac PV system. The system providers uninterrupted power to a protect loads subpanel, which is connected to a refrigerator, Microwave, 1.0 ton are conditioner, three lightning circuit, and the 6.7kwac PV system. One month later, the homeowner moves additional circuits to the

protected loads subpanel, substantially increasing the loads. Why would this cause, the backfed interconnection breaker in the main service panel to trip?
A. The main service panel is no longer compliant with NCC 705.12.
B. The total load exceeds the system's energy storage capacity of 14kWh.
C. The toad exceeds the capacity of the interconnection breaker.
D. The load the protected loads subpanel exceeds the PV system ac rating by 25%.
Answer: (SHOW ANSWER)

NEW QUESTION: 40
A PV system operates at 800V DC. What is the minimum distance for unqualified personnel per NFPA 70E restricted approach boundary?
A. 3 feet
B. 1 foot
C. 7 feet
D. 10 feet
Answer: (SHOW ANSWER)

NEW QUESTION: 41
A bifacial array gains 15% additional power from rear-side irradiance. If the front-side output is 10 kW, what is the total output?
A. 12.0 kW
B. 12.5 kW
C. 11.5 kW
D. 11.0 kW
Answer: C (LEAVE A REPLY)

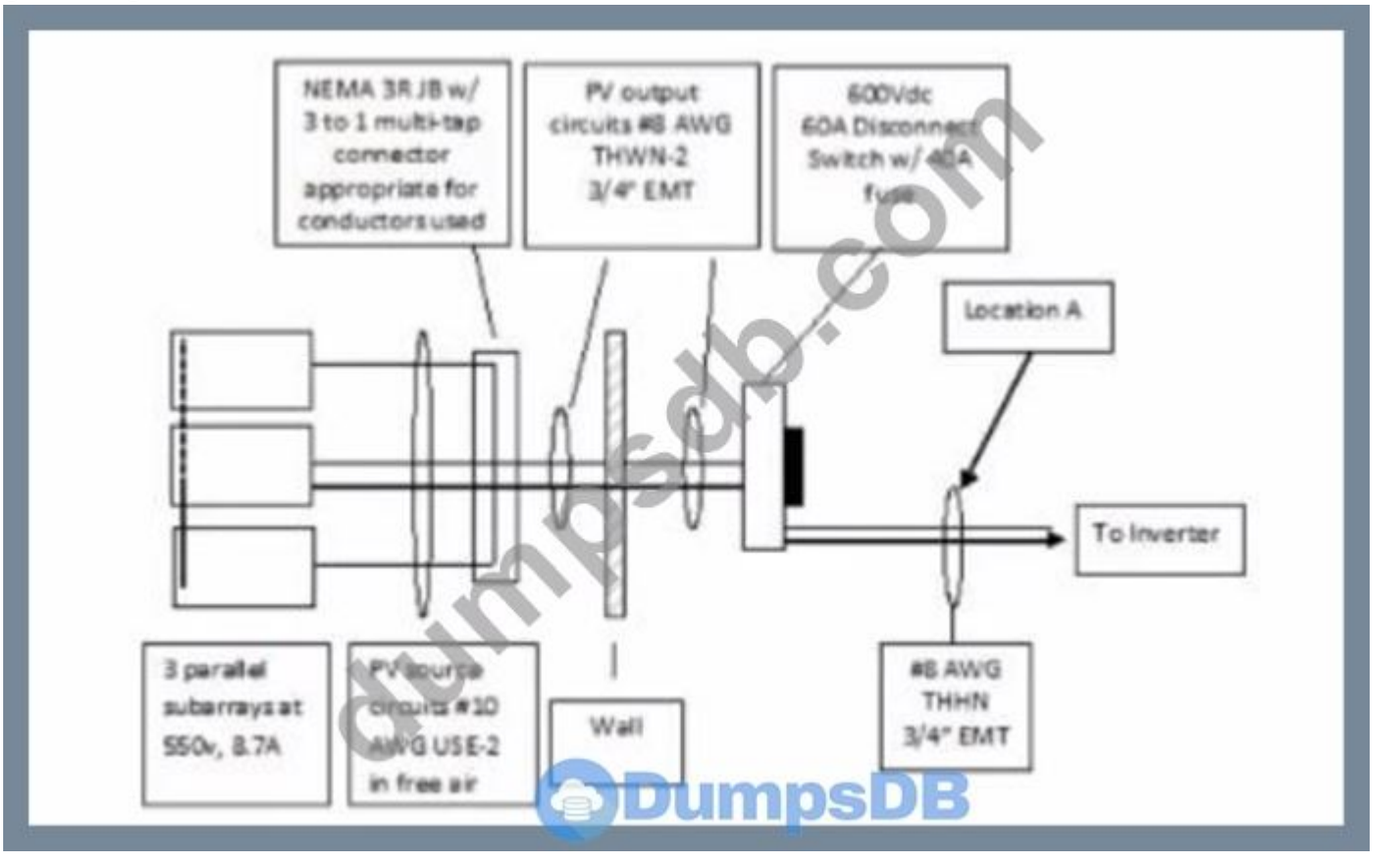
NEW QUESTION: 42
A grounding electrode is required at the location of all ground-mounted and pole-mounted PV arrays. Which typeof grounding electrode is NOT permitted for arrays. Which type of the grounding electrode is NOT permitted for array grounding?
A. Metal frame of a building or structure in direct with the earth for 10 ft. or more.
B. Metal underground water pipe in direct contact with the earth for 10 ft. or more.
C. Concrete-encased 4 AWG copper conductor at least 20 ft, in length
D. Aluminum structural member in direct contact with the earth for 10ft, or more
Answer: D (LEAVE A REPLY)

NEW QUESTION: 43
What is the maximum allowable voltage drop for a PV source circuit conductor run of 100 feet, using 10 AWG copper wire, if the system operates at 48V DC and the design specifies a 2% voltage drop?
A. 0.48V

B. 1.92V
C. 0.96V
D. 1.44V
Answer: C (LEAVE A REPLY)

NEW QUESTION: 44
A PV system has a nameplate capacity of 10 kW DC and operates with a total system derate factor of 0.85.
What is the expected AC output power under standard test conditions (STC)?
A. 7.5 kW
B. 10.0 kW
C. 9.0 kW
D. 8.5 kW
Answer: D (LEAVE A REPLY)

NEW QUESTION: 45
The following dc portion of a PV schematic (functionally grounded conductor not shown) is submitted to the building official for permit approval. The building official, who also is he AHJ, allow the system to be installed by requiring what NEC-required MINIMUM size equipment grounding conductor at Location A?



A. #6 aluminum
B. #10 copper
C. #8 copper

D. #12 aluminum
Answer: B (LEAVE A REPLY)

NEW QUESTION: 46
A PV system includes a 15 kW array with a maximum power point voltage of 450V and current of 33.33A.
The inverter efficiency is 97%, and the AC output voltage is 240V. What is the AC output current under STC?
A. 60.6A
B. 62.5A
C. 64.8A
D. 58.5A
Answer: A (LEAVE A REPLY)

NEW QUESTION: 47
During commissioning, a PV system's measured Voc is 10% lower than expected. What is the most likely cause?
A. Open circuit in a string
B. Shading on one module
C. High ambient temperature
D. Inverter malfunction
Answer: (SHOW ANSWER)

NEW QUESTION: 48
A site has a known magnetic declination of 14 west. What should the corrected azimuth reading of the array be in order to be facing true south?
A. 166
B. 194
C. 180
D. 270
Answer: B (LEAVE A REPLY)

NEW QUESTION: 49

A ground-fault protection device (GFPD) trips during commissioning. What is the most likely cause per NEC 690.5?

A. Insulation failure between a conductor and ground

B. Open circuit in the array

C. Reverse polarity in a source circuit

D. Overcurrent in the inverter output

Answer: A (LEAVE A REPLY)

NEW QUESTION: 50

In the middle of a winter day, the data acquisition system for a ground-mounted PV system with large central inverters sends an email alert that system performance is at 50% based on irradiance and temperature performance calculations. No inverters are completely offline. The closed technician is a 4-hour drive from the site, and there are no cameras on site. Which is the BEST response to this situation?

A. Call the data acquisition company to report a monitoring system failure.

B. Dispatch the technician to the site t investigate the low performance issue in person.

C. Review power output and weather conditions via the monitoring portal, and review local weather reports.

D. Report the low performance to theinverter manufacturer and request that a technical be sent to the site for a warranty claim.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 51

A ground resistance measurement on a newly installed grounding electrode indicates a resistance of 130#. The earth connection may be improved by connecting the existing electrode to a:

A. Supplement ¼ in, in thick aluminum plate electrode buried 30 in. down and located 7 ft, away.

B. Supplemental grounding electrode located 5 ft, away.

C. Supplemental copper plated steel grounding electrode located 8 ft, away.

D. Buried water piping system using 40 ft. of 2 in. PVC piping located 10 ft awat.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 52

A 5 kW PV system has a derate factor of 0.82. The site receives 5.5 PSH daily. What is the expected daily AC energy output?

A. 20.5 kWh

B. 25.0 kWh

C. 27.5 kWh

D. 22.55 kWh

Answer: (SHOW ANSWER)

NEW QUESTION: 53
A 15 kW system has a total derate factor of 0.87. After 3 years at 1% degradation/year, what is the output?
A. 13.2 kW
B. 12.8 kW
C. 12.6 kW
D. 13.0 kW
Answer: (SHOW ANSWER)

NEW QUESTION: 54
A dwelling has a 200A main load center with a 150 main breaker. Which of the following is the MOST powerful 240V inverter that can be installed in the house using the existing main panelboard with a backfed breaker?
A. 17, 280W
B. 7, 689W
C. 21, 600W
D. 9, 600W
Answer: (SHOW ANSWER)

NEW QUESTION: 55
A technician has been called to a scale due to a low-performing array. The technician will perform tests in the
24-source circuit combiner box. After putting on the correct PPE and turning off and performing lock.tagout of the inverted and combiner disconnect. Which is the next step to safely begin electrical testing in the combiner box?
A. Test for current on each source circuit coming into the combiner box.
B. Test for voltage on the positive out
C. Remove any surge suppression devices from the circuits.
D. Open all fuse holders in the combiner box.
Answer: (SHOW ANSWER)

NEW QUESTION: 56
A PV module is mounted with a 2-inch standoff from a shingle roof. What is the minimum clearance required for fire access per the International Fire Code (IFC)?
A. 3 inches
B. 6 inches
C. 1 inch
D. 9 inches
Answer: A (LEAVE A REPLY)

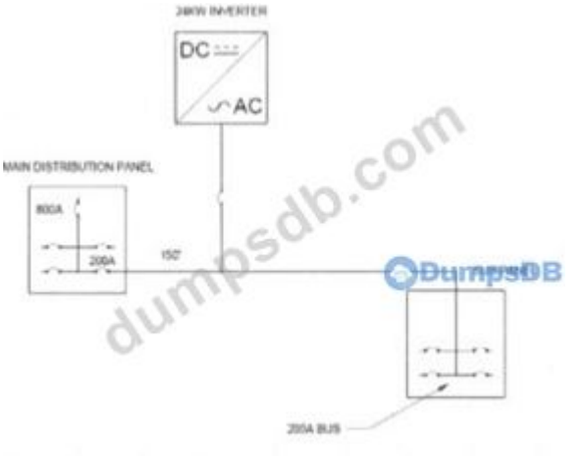
NEW QUESTION: 57

A 5 kW system has a PR of 0.80 and operates at 4.5 PSH. What is the monthly energy output?
A. 720 kWh
B. 600 kWh
C. 540 kWh
D. 675 kWh
Answer: (SHOW ANSWER)

NEW QUESTION: 58
Which of the following MUST be referenced for determining a site's design wind speed?
A. The module manufacture's design wind speed
B. The jurisdiction's local building code in effect
C. The ASHRAE Handbook_fundamentals in effect
D. The NEC version in effect
Answer: C (LEAVE A REPLY)

NEW QUESTION: 59
A project is using a PV module with a 25-38dc maximum power voltage range and a single input inverter with an operating windows of 250vdc-450dc. The dwelling the system is to be installed on has a 5:12 roof with a southeastem face that can accommodate 14 modules and southwestern face that can accommodate 10 modules. What is the MAXIMUM number of modules that can be installed for proper inverter maximum power point tracking?
A. 18
B. 24
C. 14
D. 20
Answer: D (LEAVE A REPLY)

NEW QUESTION: 60
A PV connection is being made at the center of a 300 ft. long 200 feeder. See the attack diagram. The feeder originates in the upper third of the 800A main service panel (800A main breaker) with a 200A breaker and terminates in a 200A main-lug-only subpanel. The rated output of the PV system inverter is 100A.



Which are the NIMUMUM actions required to achieve an NEC-compliant installation?

A. Install a 200A breaker at the PV source connection point on the portion on the portion of the feeder toward the subpanel and move the 200A breaker to the top of the main service panel, adjust to the 800A main breaker.

B. Install a 325A breaker at the PV source connection point on the portion of the feeder toward the subpanel. Increase the capacity of the feeder from the main panel board to 325A breaker to the bottom of the main service panel, away from the 800 main breaker.

C. Install a 200A breaker at the PV source connection point on the portion of the feeder toward the subpanel, maintain the capacity of the entire feeder, and move the 200A breaker to the bottom of the main service panel, away from the 800A main breaker.

D. Install a 325A at the PV source connection point on the portion of the feeder toward the subpanel, increase the capacity of this portion of the feeder to 325A, add a 200A main breaker to the subpanel, and move the 200A breaker to bottom of the main service panel, away from the 800A main breaker.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 61

An installer has decided to use 31 in. long. 3.1/2 in diameter conical ground screws as the footings for a

3.840W solar electric system. Access to he is too difficult to pour concrete footings. The soll is classified as sandy loam. The design wind speed is 90 mph with an uplift force of 32 ibs/ft2. What is the MINIMUM number of screw required to resist uplift loads?

Module characteristics:
P_{mp} 320W
V_{oc} 45.3V_{dc}
V_{mp} 36.8V_{dc}
I_{sc} 9.26A
I_{mp} 8.69A
Maximum series fuse: 15A
Module dimensions: depth = 1.25 in., length = 77 in., width = 39 in.

Conical Screw Pull-Out Strength Characteristics, Pounds

Screw Length (inches)	27	29	31	33	35
Soil Type					
Clay	1700	1800	1900	2000	2100
Clay-loam	1550	1650	1750	1850	1950
Loam	1300	1400	1500	1850	1950
Sandy-loam	1200	1300	1400	1500	1600
Glacial till	1000	1110	1200	1300	1400
Sand	NR	NR	NR	400	600

A. 14
B. 10
C. 12
D. 8
Answer: D (LEAVE A REPLY)

NEW QUESTION: 62
A PV module shows burn marks near the junction box. What is the most likely cause?
A. Ground fault
B. Loose connection
C. Overcurrent condition
D. Lightning strike
Answer: B (LEAVE A REPLY)

NEW QUESTION: 63
Which is a requirement for designated battery rooms?
A. Gas pipe equipment must be constructed and installed for a Hazardous Class I location.
B. must be equipped withpanic hardware and open m the directionof egress.

C. Battery cabinets, racks, or trays must have a minimum clearance of 12 in. from any wall.
D. illumination shall be provided by lightingoutlets controlled by automated means only.
Answer: B (LEAVE A REPLY)