pv string #1
14 modules in series
(typical of 66 strings)
see dwg 10g-0002

photovoltaic module specifications
(specify make & model)
230 wats
voc=37.0 vdc, isoc=16 amps
vmp=30.0 vdc, imp=7.96 amps

one photovoltaic string
3,220 watts
14 modules in series per string
voc=37.0 vdc, isoc=16 amps
vmp=40 vdc, imp=7.88 amps
(typical of 66 strings)

complete photovoltaic array
215,520 watts
voc=518 vdc, isoc=939.9 amps
vmp=420 vdc, imp=505.6 amps

2/0 cu use-2
1/0 cu usw-2 ground
not in conduit
(typical of 66 strings)

Continuous
conductor to string
(upto 4 strings)

notes:
1. equipment shall be installed in accordance with the nec and all applicable
   requirements of the local authority having jurisdiction.
2. ground wire must be continuous and installed to allow for panel removal without
disrupting continuity. all module ground connections shall be made in accordance
with nec 820.4 (c).
3. follow manufacturers suggested installation practices and wiring specifications.
4. wires shall be rated and labeled "sunlight resistant" where exposed to ambient
   conditions.

table:

<table>
<thead>
<tr>
<th>rev.</th>
<th>description</th>
<th>date</th>
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<tbody>
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<td>a</td>
<td>preliminary drawing set</td>
<td>04/16/10</td>
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<tr>
<td>b</td>
<td>revised per 2011 requirements</td>
<td>04/30/13</td>
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sample array drawing
abc solar company inc.
three-line electrical array diagram
210 kw ac photovoltaic system
999 n. cactus bird rd.
any city, az 85123

approvals:

check:

engineer:
rev. b

scale na
rev. b
sheet 3 of 5
PHOTOVOLTAIC PANEL ARRAY MOUNTED ON FLAT ROOFTOP

W. NORTH ST.

PHOTOVOLTAIC ARRAY DC DISCONNECT SWITCH 1 OF 6 (TYPICAL)

DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL

PHOTOVOLTAIC SYSTEM METER

PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH

PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH

TWO 105 KW INVERTERS

APS PROVIDED LOCK BOX

ELECTRICAL SERVICE ENTRANCE AND UTILITY REVENUE METER

NOTE: UTILITY HAS 24-HR UNRESTRICTED ACCESS TO THE PHOTOVOLTAIC SYSTEM METER AND PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH THROUGH THE SECURITY GATE

NOTE: WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH APS AND NEC REQUIREMENTS.

1204 South Main Street
Any City, Arizona 85123
Tel: 602-555-5555

ABC Solar Company Inc.
210 kW AC PHOTOVOLTAIC SYSTEM
999 N. CACTUS BIRD RD.
ANY CITY, AZ 85123

This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is to only illustrate typical minimum information required at time of application to APS. Additional information may be required.

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