

The field inspection resource is used by NY-Sun's third-party QA Contractor to evaluate the quality of the solar electric installation. NY-Sun approved builders are encouraged to reference this resource throughout the installation process for each project to ensure compliance with the NY-Sun Program rules and requirements.

Inspection Items		
<b>AC Combiner</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductor insulation rated for application</li> <li>• EGC is properly identified</li> <li>• Grounded conductor properly identified</li> <li>• Single conductor(s) connected correctly to the terminal in accordance with its listing</li> <li>• The enclosure fittings supporting and protecting the conductors are present</li> <li>• Ungrounded conductor properly identified</li> <li>• Conductors have sufficient ampacity</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Expansion fittings present</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Unused panel openings properly sealed</li> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• Enclosure is grounded</li> <li>• GEC is continuous</li> <li>• GEC is sufficiently sized</li> <li>• Grounded conductors are isolated from enclosure</li> <li>• Grounding equipment is properly installed</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• AC Combiner circuit directory is complete</li> <li>• Inverter output location label present</li> <li>• Multiple sources label is present</li> <li>• PV circuit breakers identified</li> <li>• Switch/breaker is labeled as a PV disconnect</li> <li>• AC characteristics label is present</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• Backfeed breaker is rated at, or above, 125% of inverter output current</li> <li>• Backfeed breaker less than or equal to conductor ampacity</li> <li>• Main breaker fastened in place</li> <li>• The circuit breaker type is listed for use in this enclosure</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Enclosure rated for environment</li> <li>• Proper clearances observed</li> <li>• Enclosure properly secured</li> </ul>

		Inspection Items
<b>AC Disconnect</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductor insulation rated for application</li> <li>• Conductors have sufficient ampacity</li> <li>• Grounded conductor properly identified</li> <li>• Single conductor(s) connected correctly to the terminal in accordance with its listing.</li> <li>• The conductors of the same circuit are routed together</li> <li>• The enclosure fittings supporting and protecting the conductors are present</li> <li>• Ungrounded conductors properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Disconnect only breaks ungrounded conductors</li> <li>• Disconnect rated for correct voltage/current</li> <li>• Disconnect readily accessible</li> <li>• Galvanic metals are isolated</li> <li>• Grounded conductor remains continuous</li> <li>• Sufficient disconnects to isolate equipment</li> <li>• Terminals are properly wired</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC is properly identified</li> <li>• EGC properly sized</li> <li>• EGC protected</li> <li>• GEC continuous</li> <li>• GEC sufficiently sized</li> <li>• Listed grounding means used</li> <li>• Neutral and ground isolated</li> <li>• AC disconnect is grounded</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• AC Disconnect circuit directory is complete</li> <li>• AC output info label present/correct</li> <li>• Labeled as a PV system disconnect</li> <li>• The manufacturer's labels are not obscured.</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• The OCPD is adequately sized for the expected output current of the PV System</li> <li>• Fused AC Disconnect is properly installed, Fuses are present</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Enclosure moisture accumulation prevention method employed. (Weep Hole)</li> <li>• Suitable for location installed</li> </ul>

		Inspection Items
<b>Array - Ground Mounted</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors exceed minimum bending radius</li> <li>• All array conductors are properly connected</li> <li>• Conductors are protected from physical damage</li> <li>• Conductors properly supported</li> <li>• DC conductors rated for environment</li> <li>• Grounded conductor color codes followed</li> <li>• Sufficient ampacity in PVSC</li> <li>• Ungrounded conductor color codes followed</li> <li>• Wire ties rated for outdoor use/UV exposure</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit properly supported</li> <li>• Conduit/connectors properly installed</li> <li>• Expansion fittings present</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• PVSC conductors not readily accessible</li> <li>• PVSC indoors in metal conduit</li> <li>• The conduit is grounded</li> <li>• Conduit not used as conductor support</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Components listed for voltage</li> <li>• Galvanic metals isolated</li> <li>• Outdoor components used</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC protected from damage</li> <li>• Grounding hardware properly installed</li> <li>• Module frames grounded</li> <li>• Module grounding hardware must be listed for the purpose</li> <li>• Racking is grounded</li> <li>• Racking/support properly bonded</li> <li>• Single conductor terminated at the Ground lug(s) in accordance with its listing</li> <li>• Sufficient WEEB quantity used</li> <li>• EGC color code followed</li> </ul>
	OCPD Program	<ul style="list-style-type: none"> <li>• String fuses/OCPD present</li> <li>• Modules are in good working condition</li> </ul>
		<ul style="list-style-type: none"> <li>• Array Azimuth (degree)</li> <li>• Array Module Model Number</li> <li>• Array Module Quantity</li> <li>• Array Tilt (degree)</li> <li>• Accessible DC disconnect present</li> <li>• Modules new and undamaged</li> <li>• PV modules are UL certified per NY Sun program requirements</li> <li>• Array Module Manufacturer</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Module secured to racking</li> <li>• Support/racking suitable</li> </ul>

		Inspection Items
<b>Array - Roof Mounted</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors are protected from physical damage</li> <li>• All array conductors are properly connected</li> <li>• Conductors exceed minimum bending radius</li> <li>• Conductors properly supported</li> <li>• DC conductors rated for environment</li> <li>• Grounded conductor color codes followed</li> <li>• Sufficient ampacity in PVSC</li> <li>• Ungrounded conductor color codes followed</li> <li>• Wire ties rated for outdoor use/UV exposure</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit properly supported</li> <li>• Conduit/connectors properly installed</li> <li>• Expansion fittings present</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• PVSC indoors in metal conduit</li> <li>• The conduit is grounded</li> <li>• Conduit not used as conductor support</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Components listed for voltage</li> <li>• Galvanic metals isolated</li> <li>• Outdoor components used</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC protected from damage</li> <li>• Grounding hardware properly installed</li> <li>• Metal roof is grounded</li> <li>• Module frames grounded</li> <li>• Module grounding hardware must be listed for the purpose</li> <li>• Racking is grounded</li> <li>• Racking/support properly bonded</li> <li>• Single conductor terminated at the Ground lug(s) in accordance with its listing</li> <li>• Sufficient WEEB quantity used</li> <li>• EGC color code followed</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• String fuses/OCPD present</li> </ul>
	Program	<ul style="list-style-type: none"> <li>• Modules new and undamaged</li> <li>• Modules are in good working condition</li> <li>• PV modules are UL certified per NY Sun program requirements</li> <li>• Array Module Manufacturer</li> <li>• Array Azimuth (degree)</li> <li>• Array Module Model Number</li> <li>• Array Module Quantity</li> <li>• Array Tilt (degree)</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Roof under array is in good condition</li> <li>• Flashing present/properly installed [NYSBC 1503, NYSRC M2301.2.7, and NEC 110.3(B)]</li> <li>• Module secured to racking</li> <li>• Support/racking suitable</li> <li>• Vent pipes not covered [NYSPC 904.1]</li> </ul>

		Inspection Items
Array - Battery Backup	Conductors	<ul style="list-style-type: none"> <li>• Conductors properly sized</li> <li>• Conductors protected from accidental contact</li> <li>• Correct terminals used</li> <li>• Conductors properly identified</li> <li>• Correct cable type used</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Charge controller properly configured</li> <li>• Disconnect present</li> <li>• Galvanic metals are isolated</li> <li>• Voltage <math>\leq 50\text{Vdc}</math></li> <li>• Batteries ventilated</li> <li>• Clearances maintained</li> <li>• Proper racking material/type used</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• Grounded conductor properly identified</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Battery bank labeled with voltage/current/polarity</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• Adjacent circuits protected from overcurrent</li> </ul>
	Program	<ul style="list-style-type: none"> <li>• Battery Model</li> <li>• Battery Quantity</li> <li>• Battery Manufacturer</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Batteries mounted properly</li> <li>• Equipment mounted properly</li> </ul>

		Inspection Items
Array - DC Combiner	Conductors	<ul style="list-style-type: none"> <li>• Grounded conductor properly identified</li> <li>• Output conductors have sufficient ampacity</li> <li>• String conductors have sufficient ampacity</li> <li>• Ungrounded conductor not properly marked</li> <li>• Conductors spliced securely</li> <li>• Conductor insulation properly rated</li> <li>• Splices suitable for environment</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Output circuits in metal if run indoors</li> <li>• Thermal expansion fittings present</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Listed for current present</li> <li>• Galvanic metals are isolated</li> <li>• Listed for voltage present (600V/1000V)</li> <li>• Combiner is NRTL listed</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• Combiner box is grounded</li> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Single conductor(s) connected correctly to the ground lug/ground terminal position in accordance with its listing</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• DC characteristics label present</li> <li>• Energized DC ungrounded conductor warning label present</li> <li>• Combiner disconnect is labeled</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• Fuse holder is DC rated</li> <li>• Fuse is DC rated</li> <li>• Fuse rating <math>&gt; 1.56 \times I_{sc}</math></li> <li>• Grounded conductors unfused</li> <li>• Ungrounded conductors are protected by an OCPD.</li> <li>• Ungrounded conductors fused</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Properly secured/mounted</li> <li>• The DC OCPD is not oversized for the expected circuit current</li> <li>• Approved Enclosure moisture accumulation prevention method employed. (Weep Hole)</li> <li>• Suitable for location installed</li> </ul>

		Inspection Items
<b>Array - DC Disconnect</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductor insulation rated for application</li> <li>• Conductors have sufficient ampacity</li> <li>• Conduit fittings properly used</li> <li>• Grounded conductor properly identified</li> <li>• Ungrounded conductor properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit properly supported</li> <li>• DC conductors in metal when indoors</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> <li>• Conduit not used as conductor support</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Breaks only ungrounded conductor</li> <li>• Disconnect breaks all ungrounded conductors</li> <li>• Disconnects sufficient to isolate all equipment</li> <li>• Galvanic metals are isolated</li> <li>• Listed for DC</li> <li>• Readily accessible</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC protected</li> <li>• Enclosure is grounded</li> <li>• Grounding equipment is properly installed</li> <li>• EGC properly identified</li> <li>• EGC properly sized</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Energized DC ungrounded conductor warning label present</li> <li>• Labeled as disconnect</li> <li>• Labeled with DC characteristics</li> <li>• Shock hazard warning label present</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• Fuses rated for DC and correct voltage</li> <li>• Enclosure rated for voltage/current</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Suitable for location installed</li> <li>• Disconnect properly secured</li> </ul>

		Inspection Items
<b>Array - Feeder Tap Connection</b>	Conductors	<ul style="list-style-type: none"> <li>• Grounded conductors properly identified</li> <li>• Splices properly made</li> <li>• Conductor insulation rated for application</li> <li>• Feeder conductors are properly sized and protected</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Grounded conductor remains continuous</li> <li>• Terminals are properly wired</li> <li>• Disconnect rated for correct voltage/current</li> <li>• Disconnect readily accessible</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• Grounding equipment is properly installed</li> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC bonded to existing ground system</li> <li>• GEC continuous</li> <li>• GEC present and sufficiently sized</li> <li>• Neutral and ground isolated</li> <li>• Water pipe electrode supplemented by other electrode</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Labeled as a PV system disconnect</li> <li>• AC output info label present/correct</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• OCPD protects inverter output circuit</li> <li>• OCPD sized to prevent nuisance tripping</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Properly secured/mounted</li> <li>• Suitable for location installed</li> <li>• Clearances maintained/live parts secured</li> </ul>

		Inspection Items
<b>Inverter - AC Module</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Conductor insulation rated for application</li> <li>• Splices suitable for environment</li> <li>• Grounded conductor properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit fittings properly used</li> <li>• Conduit properly supported</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Inverter not properly installed</li> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• AC Module properly grounded</li> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Grounding equipment is properly installed</li> </ul>
<b>Inverter - Microinverter</b>	Conductors	<ul style="list-style-type: none"> <li>• Power receptacle is GFCI-WR rated</li> <li>• Conductor insulation rated for application</li> <li>• Splices suitable for environment</li> <li>• Grounded conductor properly identified</li> <li>• Conductors have sufficient ampacity</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC properly installed</li> <li>• GEC sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• Microinverter properly grounded</li> </ul>
	Program	<ul style="list-style-type: none"> <li>• Inverter Model Number</li> <li>• Inverter Quantity</li> <li>• Inverter Manufacturer</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Properly secured/mounted</li> </ul>

		Inspection Items
<b>Inverter - String Inverter</b>	Conductors	<ul style="list-style-type: none"> <li>• DC conductor insulation rated for application</li> <li>• AC conductor insulation rated for application</li> <li>• DC conductors have sufficient ampacity</li> <li>• AC conductors have sufficient ampacity</li> <li>• DC conductors in metal when indoors</li> <li>• Grounded AC conductors properly identified</li> <li>• Grounded DC conductor properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• DC Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> <li>• AC Conduit properly supported</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Minimum string voltage sufficient to start inverter</li> <li>• Inverter AC Disconnect is present and grouped with the Inverter</li> <li>• Max string voltage below inverter max</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• Inverter properly grounded</li> <li>• Array EGC properly terminated</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• DC characteristics label present</li> <li>• Disconnect labeled</li> <li>• GFDI warning label present</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• String fuses sized for module ratings</li> <li>• Fuses properly rated</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Inverter properly mounted/secured</li> </ul>

		Inspection Items
<b>Inverter - Xformerless Inverter</b>	Conductors	<ul style="list-style-type: none"> <li>• DC conductor insulation rated for application</li> <li>• AC conductor insulation rated for application</li> <li>• AC ungrounded conductors properly identified</li> <li>• AC conductors have sufficient ampacity</li> <li>• DC conductors have sufficient ampacity</li> <li>• DC ungrounded conductors properly identified</li> <li>• GFCI-WR rated receptacle is installed properly</li> <li>• The enclosure fittings supporting and protecting the conductors are present</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• DC conductors in metal when indoors</li> <li>• DC conduit fittings used properly</li> <li>• DC Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• The conduit is grounded.</li> <li>• Thermal expansion fittings present</li> <li>• AC conduit fittings used properly</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Inverter AC Disconnect is present and grouped with the Inverter</li> <li>• Inverter not properly installed</li> <li>• Max string voltage below inverter max</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• EGC properly sized</li> <li>• EGC protected</li> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• Grounding equipment is properly installed</li> <li>• Array EGC properly terminated</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• A normally grounded DC conductor warning label is applied to a grounded inverter</li> <li>• DC characteristics label present on disconnect</li> <li>• Labeled as a PV system disconnect</li> <li>• Ungrounded DC conductor warning label applied to an ungrounded Inverter</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• Fuses properly rated</li> <li>• Fuses obey module string fuse rating</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Inverter mounted/secured properly</li> <li>• A GFCI-WR rated receptacle is installed in a wet/damp location</li> <li>• Clearances maintained</li> <li>• The Inverter enclosure employs an approved moisture accumulation prevention method</li> </ul>

		Inspection Items
<b>Inverter - Xformerless Microinverter</b>	Conductors	<ul style="list-style-type: none"> <li>• Splices suitable for environment</li> <li>• Conductor insulation rated for application</li> <li>• Grounded conductor properly identified</li> <li>• Conductors have sufficient ampacity</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit properly supported</li> <li>• Conduit not used as conductor support</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Inverter not properly installed</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC protected</li> <li>• Grounding equipment is properly installed</li> <li>• Xformerless Microinverter properly grounded</li> <li>• EGC properly identified</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Properly secured/mounted</li> </ul>
		Inspection Items
<b>Junction Box</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Power receptacle is GFCI-WR rated</li> <li>• Splices suitable for environment</li> <li>• Conductor insulation rated for application</li> <li>• Grounded conductor properly identified</li> <li>• Splices secure</li> <li>• The enclosure fittings supporting and protecting the conductors are present.</li> <li>• The length of the free conductors within the enclosure meet or exceed 6" requirement</li> <li>• Ungrounded conductor properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• DC conductors in metal when indoors</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• NRTL Listed</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• Grounded conductors isolated from enclosure</li> <li>• Grounding equipment is properly installed</li> <li>• EGC properly identified</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Energized DC ungrounded conductor warning label present</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• The OCPD is properly sized for the rating of the receptacle</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Suitable for location installed</li> <li>• Flashing present/properly installed [NYSBC 1503, NYSRC M2301.2.7, and NEC 110.3(B)]</li> <li>• Junction box is accessible</li> <li>• Properly secured/mounted</li> </ul>

		Inspection Items
<b>Load Side Connection</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Grounded conductors properly identified</li> <li>• The neutral conductor is connected at its own dedicated terminal</li> <li>• Conductor insulation rated for application</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Split bus panel not used</li> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• EGC protected</li> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC bonded to existing ground system</li> <li>• GEC continuous</li> <li>• GEC present and sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• Water pipe electrode supplemented by other electrode</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Multiple sources label is present</li> <li>• Power source directory present (NEC 705.10)</li> <li>• PV breakers properly identified</li> <li>• BFB labeled with AC characteristics</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• BFB properly located in panel</li> <li>• The PV breaker is listed for use in the enclosure.</li> <li>• OCPD exceeds the 120% rule</li> <li>• BFB sized to prevent nuisance tripping</li> <li>• BFB sized to protect circuits</li> <li>• OCPD protects circuits</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Properly secured/mounted</li> <li>• Suitable for location installed</li> <li>• Clearances maintained/live parts secured</li> </ul>
		Inspection Items
<b>Optimizer</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Conductor insulation rated for application</li> <li>• Splices rated for environment</li> <li>• Grounded conductor properly identified</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit properly supported</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• Optimizer grounded</li> <li>• Optimizer is properly grounded</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Optimizer mounted/secured properly</li> </ul>

		Inspection Items
Overall Observations	Program	<ul style="list-style-type: none"> <li>• System Capacity (kWdc) &lt; Program Records (affects incentive)</li> <li>• System Capacity (kWdc) &gt;= Program Records</li> <li>• TSRF &lt;80% and affects incentive</li> <li>• TSRF &gt;80% and agrees with installer estimate (no incentive impact)</li> <li>• Program compliant means is present for customer to verify system electricity generation</li> <li>• Existing Panelboard does not meet Program Compliance</li> </ul>
		Inspection Items
Production Meter	Conductors	<ul style="list-style-type: none"> <li>• Conductor insulation rated for application</li> <li>• Conductors have sufficient ampacity</li> <li>• Conductors properly sized</li> <li>• Grounded conductor properly identified</li> <li>• The enclosure fittings supporting and protecting the conductors are present</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Meter not wired backwards</li> <li>• Meter rated for correct voltage</li> <li>• Meter rated for current load</li> <li>• Neutral and ground isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly sized</li> <li>• EGC protected</li> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC continuous</li> <li>• GEC sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• EGC properly identified</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Enclosure properly secured/mounted</li> <li>• Enclosure suitable for environment</li> </ul>

		Inspection Items
<b>Rapid Shutdown Device</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Conduit fittings properly used</li> <li>• Grounded conductor properly identified</li> <li>• Splices secure</li> <li>• Splices suitable for environment</li> <li>• Ungrounded conductor properly identified</li> <li>• Conductor insulation rated for application</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• DC conductors in metal when indoors</li> <li>• DC conduit properly labeled</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> <li>• Rapid shutdown device controls conductors of more than 5 feet inside a building and more than 10 feet outside a building</li> <li>• Rapid shutdown device decreases PV output conductors to less than 30 volts within 10 seconds of initiation</li> <li>• Enclosure or device rated for voltage/current</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• EGC properly sized</li> <li>• Enclosure is grounded</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• Rapid shutdown label present</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> <li>• Enclosure properly secured</li> <li>• Suitable for location installed</li> </ul>

		Inspection Items
Subpanel	Conductors	<ul style="list-style-type: none"> <li>• Conductors have sufficient ampacity</li> <li>• Grounded conductor properly identified</li> <li>• Conductor insulation rated for application</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit fittings properly used</li> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• Thermal expansion fittings present</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Galvanic metals are isolated</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly identified</li> <li>• Enclosure is grounded</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• GEC bonded to existing ground system</li> <li>• GEC continuous</li> <li>• GEC sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• Neutral and ground isolated</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• BFB labeled as a disconnect</li> <li>• Circuit breaker directory is complete</li> <li>• Inverter output location label present</li> <li>• Multiple sources label is present</li> <li>• PV appears on breaker directory</li> <li>• AC characteristics label is present</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• BFB rating <math>\leq</math> circuit ampacity</li> <li>• BFB rating <math>\geq 1.25 \times</math> inverter output current</li> <li>• Main breaker not secured</li> <li>• OCPD rating <math>\leq</math> circuit ampacity</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Enclosure mounted/secured properly</li> <li>• Enclosure suitable for environment</li> <li>• Clearances maintained</li> </ul>

		Inspection Items
<b>Supply Side Connection</b>	Conductors	<ul style="list-style-type: none"> <li>• Conductor insulation rated for application</li> <li>• Conductors have sufficient ampacity</li> <li>• EGC properly identified</li> <li>• Splices properly made</li> <li>• The enclosure fittings supporting and protecting the conductors are present</li> <li>• The neutral conductor is connected at its own dedicated terminal</li> <li>• The PV splice connector(s) conductor(s) are properly installed and not exposed in accordance with the connector(s) listing</li> </ul>
	Conduit	<ul style="list-style-type: none"> <li>• Conduit not used as conductor support</li> <li>• Conduit properly supported</li> <li>• Ferrous conduit/enclosures properly bonded to GEC</li> <li>• Frost sleeve provided</li> <li>• Indoor/outdoor conduit penetrations internally sealed</li> <li>• The service entrance FMC conduit does not exceed 6 feet</li> <li>• Conduit fittings properly used</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>• Disconnect not rated for use</li> <li>• Disconnect not wired backwards</li> <li>• Galvanic metals are isolated</li> <li>• Grounded conductor is unfused</li> <li>• Means to disconnect a power source from all sources are grouped and identified (NEC 690.15)</li> <li>• Readily accessible</li> <li>• Split bus panel not used</li> </ul>
	Grounding	<ul style="list-style-type: none"> <li>• EGC properly sized</li> <li>• EGC protected</li> <li>• GEC bonded to existing ground system</li> <li>• GEC sufficiently sized</li> <li>• Grounding equipment is properly installed</li> <li>• Neutral bonded to enclosure</li> <li>• The enclosure is grounded (NEC 690.43)</li> <li>• The ground rod is protected from physical damage or is below/flush with the ground</li> <li>• The required supplemental grounding electrode is present</li> <li>• A water meter/filter ground bonding jumper is present</li> </ul>
	Labeling	<ul style="list-style-type: none"> <li>• AC characteristics label is present</li> <li>• Labeled as a PV system disconnect</li> <li>• Power source directory present</li> <li>• The manufacturer's labels are not obscured</li> </ul>
	OCPD	<ul style="list-style-type: none"> <li>• OCPD missing</li> <li>• The backfed PV breaker main OCPD is secured to the busbar by a secondary method</li> <li>• The OCPD is adequately sized for the expected output current of the PV System</li> <li>• The PV Disconnect fuses are installed properly</li> <li>• AIC rating matches main breaker</li> </ul>
	Structural	<ul style="list-style-type: none"> <li>• Clearances maintained</li> </ul>