

City of Aspen Photovoltaic Solar System Installation Guidelines

Installer Requirements:

Direct Current Wiring: Installation of the electrical wiring on the D.C. side shall be performed by:

1. An electrical contractor licensed by the State of Colorado
2. A North American Board of Certified Energy Practitioners (NABCEP) certified contractor
3. A Colorado Solar Installers Association (COSIA) certified contractor, or
4. Homeowner

Alternating Current Wiring: Installation of the electrical wiring on the A.C. side shall be performed by:

1. An electrical contractor licensed by the State of Colorado, or
2. Homeowner

A homeowner may install electrical work at their residence, but must obtain a permit from the City of Aspen Building Department prior to starting the electrical work. A homeowner may do their own wiring if:

1. The work is personally performed by the homeowner and the property is not for sale, resale, or rent, and is not generally open to the public.
2. All work is inspected prior to covering, i.e., insulation, drywall, etc., and again upon completion of the system prior to occupancy and permanent power release.
3. All electrical work complies with the National Electrical Code.

An Electrical Contractor is required to obtain permits for the work done by the company. Work must not be performed using a "homeowner" issued permit or permit issued to another company.

Colorado State Electrical Permit Definition: Homeowner: The lawful owner of a property or residence not intended for sale or for rent and generally not open to the public.

Permit Application - At time of application:

1. One line diagram shall be submitted that includes details with wire sizing, circuit voltage, voltage drop, grounding, and fusing of the proposed PV system.
2. The submittal shall include manufacturer's specifications and installation documents of Module, Array, Combiner box (if applicable), Inverter, Mounting hardware, Batteries (if applicable), Disconnect and all other PV associated equipment.
3. Drawings shall detail panel azimuth, zenith alignment towards the sun, equipment elevations, and a site plan.
4. Proposed PV system KW capacity rating utilized for utility offset.
5. City of Aspen Electric Department requires the Interconnect Agreement form to be filled out, signed, and approved prior to permit issuance.

Rough-in Inspection:

1. Installation shall be inspected prior to any concealment of wire ways.
2. All underground wiring shall be installed.
3. The grounding system shall be installed.
4. For roof mounted installations, mounting hardware shall be inspected prior to module installation.
5. The on-line drawing along with manufacturer's installation instructions for all equipment shall be onsite.
6. A representative of the company shall be available to answer inspector's questions.

Final Inspection:

1. All equipment involving AC and DC voltages will be complete and ready to be energized.
2. Operation of PV system is field inspected.
3. A representative of the company shall be available to answer inspector's questions.