



COMMERCIAL/INDUSTRIAL SOLAR CHECKLIST

PERMIT APPLICATION & SUBMITTAL REQUIREMENTS

- Complete a building permit application online by visiting our [Online Permitting Portal](#)
- Electrical contractor shall provide a letter of intent and a copy of their electrical license.
- Submit a signed and stamped structural calculation report from a State of Illinois licensed structural engineer.
- Submit a signed and stamped solar array plan from a State of Illinois licensed electrical engineer which includes the following:
 - Distributed Generation Number
 - Fire access layout plan
 - Electrical one-line diagram
 - Electrical load calculations
 - Solar equipment specifications
 - Labeling of all solar equipment
- Complete and submit the attached electrical panel schedule, if using on the load side.

Must comply with the following Codes:

- 2024 International Building Code (IBC)
- 2024 International Fire Code (IFC)
- 2023 National Electrical Code (NEC)

INSPECTIONS:

Inspections are scheduled by calling (847) 357-4220 between the hours of 8:00 a.m. and 5:00 p.m. Monday through Friday. Please have the **permit number** and **site address** ready. In addition, please allow a minimum of 24 hours when scheduling an inspection.

- FINAL**

COMMERCIAL/INDUSTRIAL SOLAR REQUIREMENTS

General:

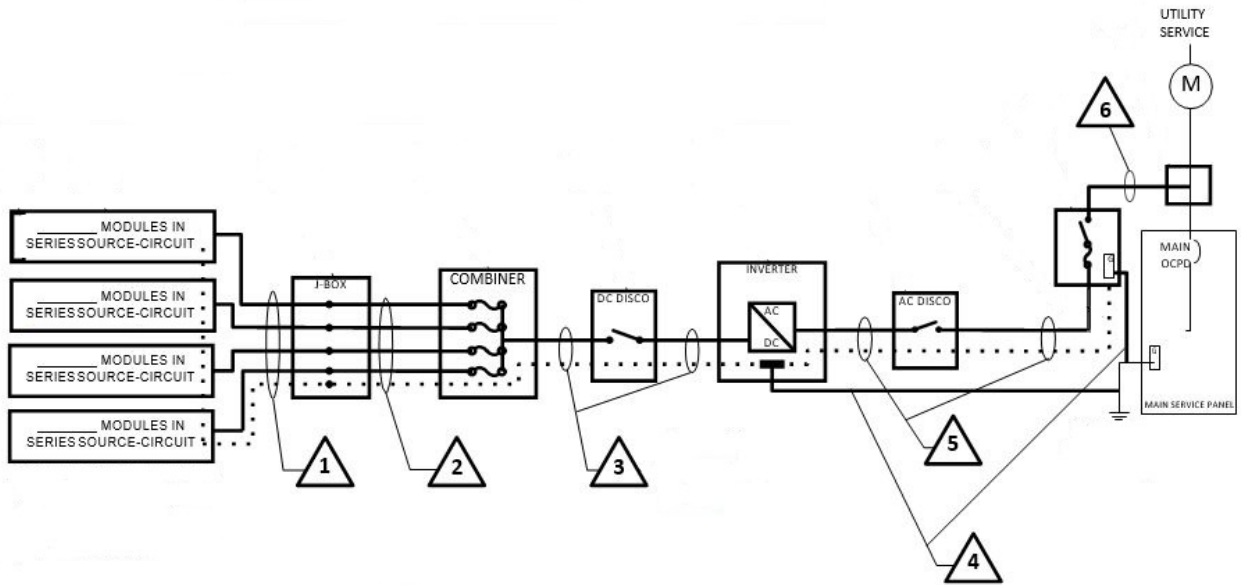
- Modules conform to and are listed under UL 1703, per IBC Sect. 3111.3.1.
- Racking conforms to and is listed under UL 2703.
- Inverters conform to and are listed under UL 1741, per IBC Sect. 3111.3.1.
- Roof access and pathways, per IBC Sect. 3111.3.4 and IFC Sect. 1205.2.
- Solar PV System must comply with NEC Article 690

Electrical Energy Storage Systems (ESS):

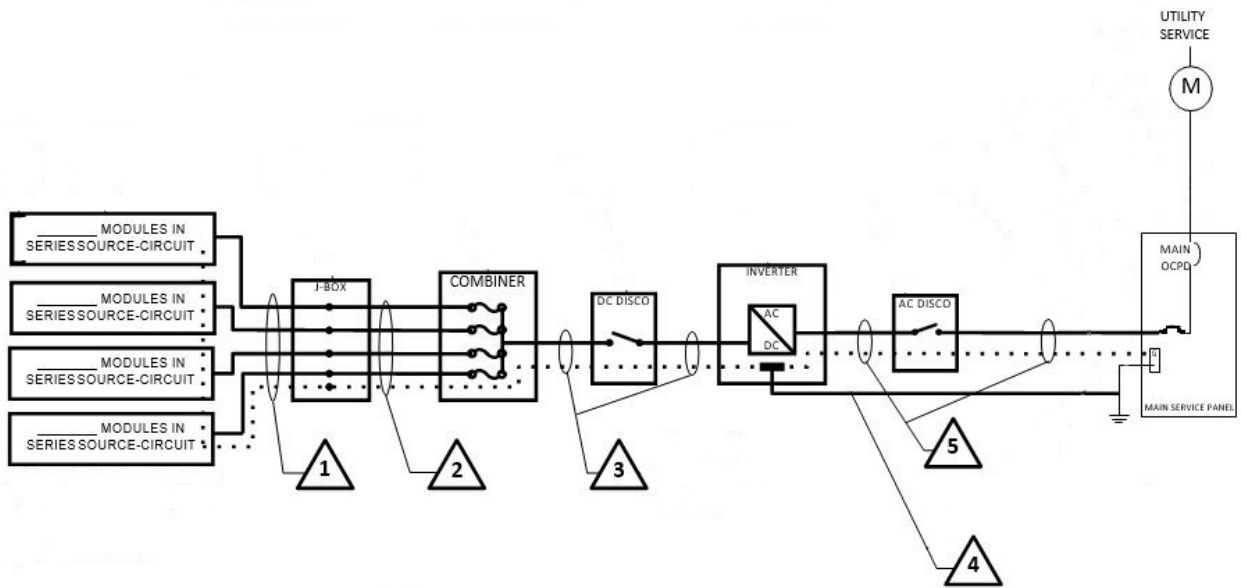
- Equipment conforms to and is listed under UL 9540 per IFC Sect. 1207.3.1.
- Equipment shall be installed according to NFPA 855 and NFPA 70 (NEC Article 706) per IFC Sect. 1207.4.
- Ventilation shall be in accordance with IFC Sect. 1207.6.1.
- Fire-rated rooms will be required when battery storage exceeds amounts per IFC Sect. 1207.4.3.
- Where exposed to vehicle impact, vehicle impact protection shall be installed in accordance with IFC Sect. 312 per IFC Sect.1207.4.5.

Stationary Fuel Cell Power Systems:

- Equipment shall be listed and labeled in accordance with CSA FC 1, per IFC Sect. 1206.3.
- Equipment shall be installed according to NFPA 2 and NFPA 70 (NEC Article 480) per IFC Sect. 1206.4.
- Ventilation conforms to NFPA 853 per IFC Sect. 1206.11.
- Fire-rated rooms will be required for stationary fuel cell power storage per IFC Sect. 1206.6.2.
- Where exposed to vehicle impact, vehicle impact protection shall be installed in accordance with IFC Sect. 312 per IFC Sect.1206.7.



Line/Supply Side Connection System



Load Side Connection System