

SOLARTECHNOLOGY

What you should know to start planning.



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REQUIRED INFORMATION FOR PERMIT

- Site plan showing location of major components on the property. This drawing does not need to be exactly to scale, but it should represent relative location of components at site. If array is ground mounted, it should show that it conforms, with allowable setbacks, sides, front, & rear.
- Electrical diagram showing PV array configuration, wiring system, overcurrent protection, inverter, disconnects, required signs, and AC connection to the building. All electrical must meet the Michigan Electrical Code requirements.
 Specification sheets and installation
- manuals (if available) for all manufactured components including but not limited to, PV modules, inverters, combiner box, disconnects, and mounting system. A copy of these must be turned in to the Township to be retained in the building file for the parcel.

OF PV ARRAY MOUNTING SYSTEM Is the array to be mounted on a defined,

STRUCTURAL REVIEW

- permitted roof structure? Yes/No (structure meets modern codes)

 If No, the Building Inspector may
- require an engineer or architect approved drawings with the application.



Know the advantages as well as the disadvantages of any construction project.

What is the upfront cost.
 Savings over time.

- 3. Location of the panels.4. Battery Storage
- PV SYSTEMS AND THE

(NEC) Article 690 addresses safety standards for the installation of PV systems. Many other articles of the NEC may

NATIONAL ELECTRIC CODE

- also apply to most PV installations.

 NEC SECTIONS
- APPLICABLE TO PV
 SYSTEMS
 (MAY NOT BE ALL INCLUSIVE)
- InstallationsChapter 2: Wiring and Protection

Article 110: Requirements for Electrical

• Most of the chapter - especially

Article 300: Wiring Methods

- Article 250: GroundingChapter 3: Wiring Methods and
- MaterialsMost of the chapter especially
 - Article 310: Conductors for General Wiring
 Article 480: Storage Batteries
 - Article 690: Solar Photovoltaic Systems
- information.

*See a licensed electrician for more

Calculations for Electrical Diagram In order for a PV system to be

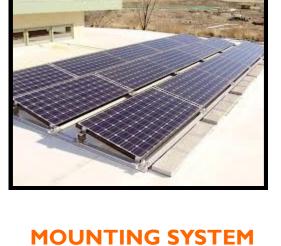
PV SYSTEM

considered for a permit, the following must apply:I. PV modules, utility-interactive

- inverters, and combiner boxes are identified for use in PV systems.2. The PV array is composed of 4 series
- strings or less.The Inverter has a continuous power output of 13,440 watts or less.
- The AC interconnection point is on the load side of service disconnecting, see NEC 690.64.
- 5. The electrical diagram can be used to accurately represent the PV system.

ROOF INFORMATION Is the roofing type lightweight?

- Does the roof have a single roof
- covering?Provide method and type of
- weatherproofing roof penetrations (e.g. flashing, caulk)



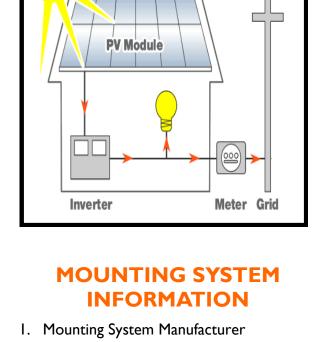
The mounting structure is an engineered product designed to

INFORMATION

- mount PV modules? Yes/No

 For manufactured mounting systems, please provide all specification sheets
- manual for this system. This is required.

and a complete set of instructions and



2. Product name and model

3.	Total weight of PV modules and railslbs. Total number of
	attachment points
4.	Weight per attachment point (b divided by c)lbs. (if greater than 45lbs see WKSI)
5.	Maximum spacing between

attachment points on a rail __ inches. (see product manual for maximum

spacing allowed based on maximum

6. Total surface area of PV modules _____ square feet.
7. Distributed weight of PV module on roof (b divided by f) lbs./square

design wind speed).

feet.

is greater than 5 lbs./square feet, see WKS1.

*If distributed weight of the PV system

For additional information, contact the Thomas Township Community Development Department at (989) 781-0150.