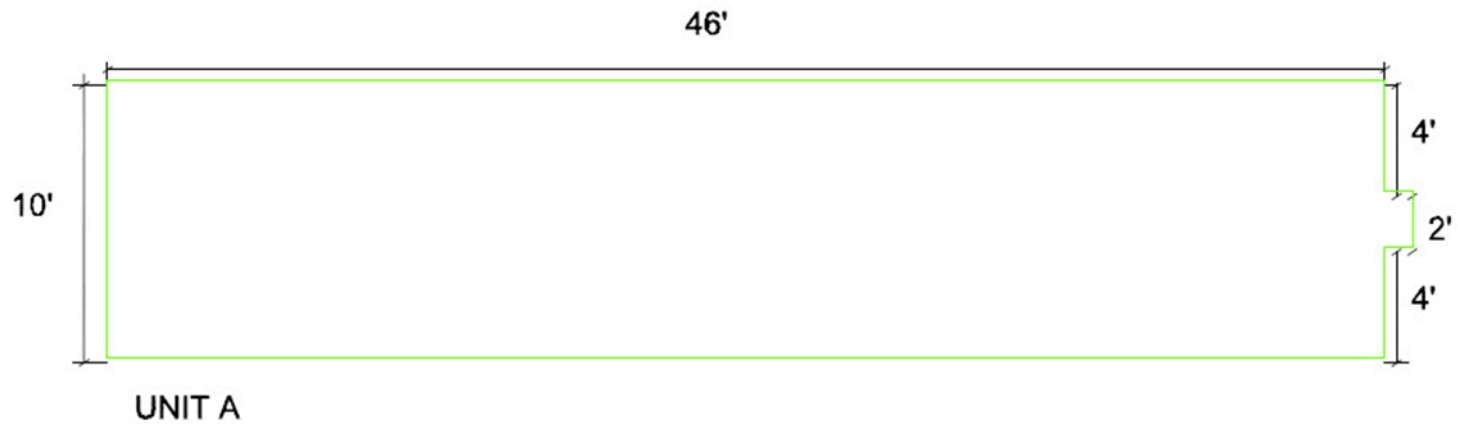


# ASSIGNMENT # 7

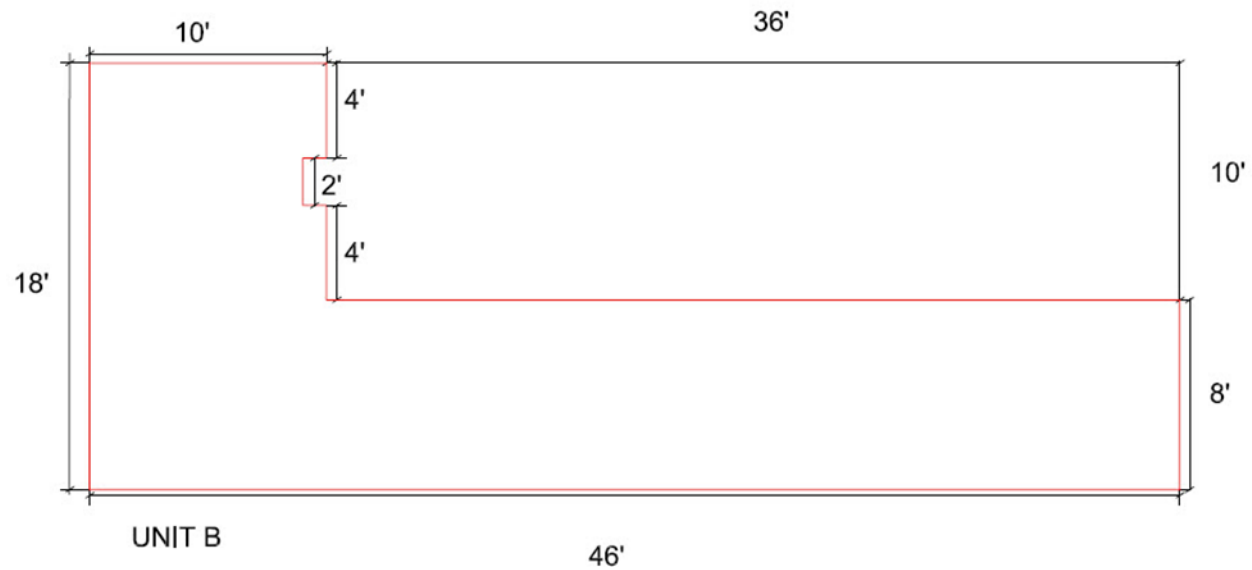


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PROFESSOR APTEKAR  
BY: ANZHELLA MESSIAN

# *Units Dimensions: Unit A*

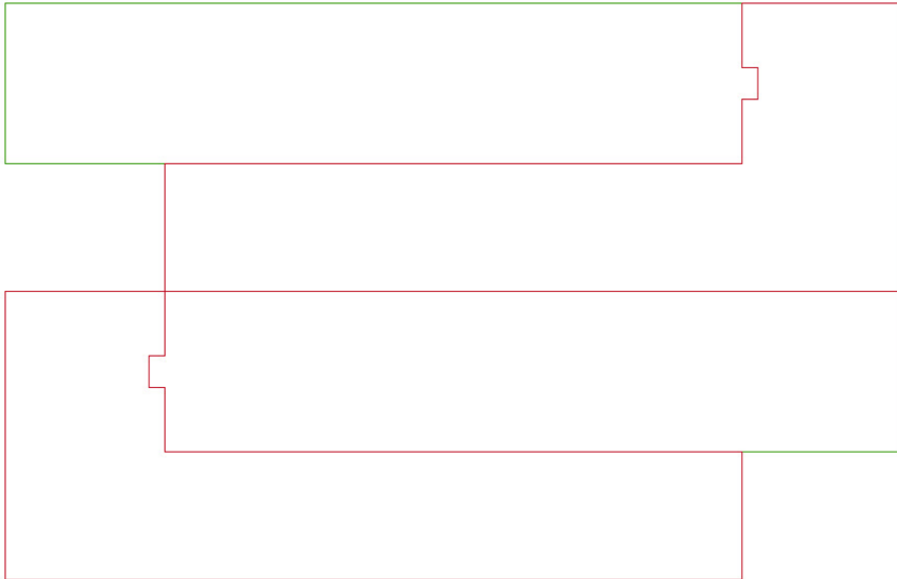


# *Units Dimensions: Unit B*

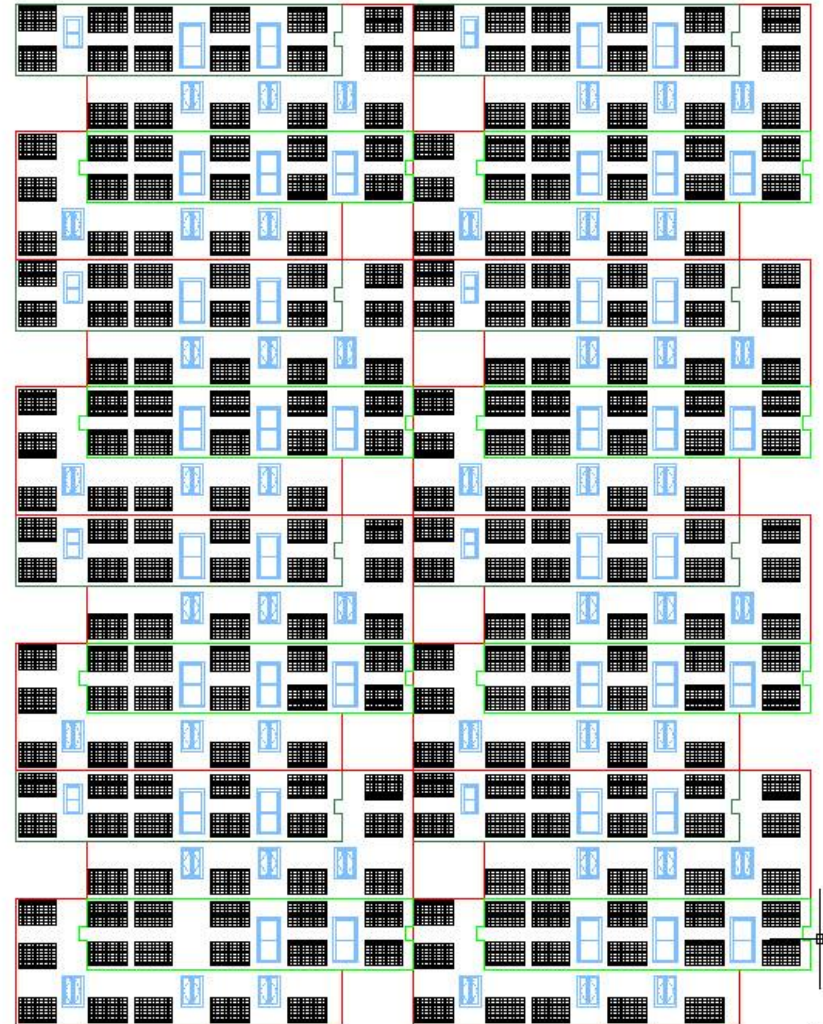
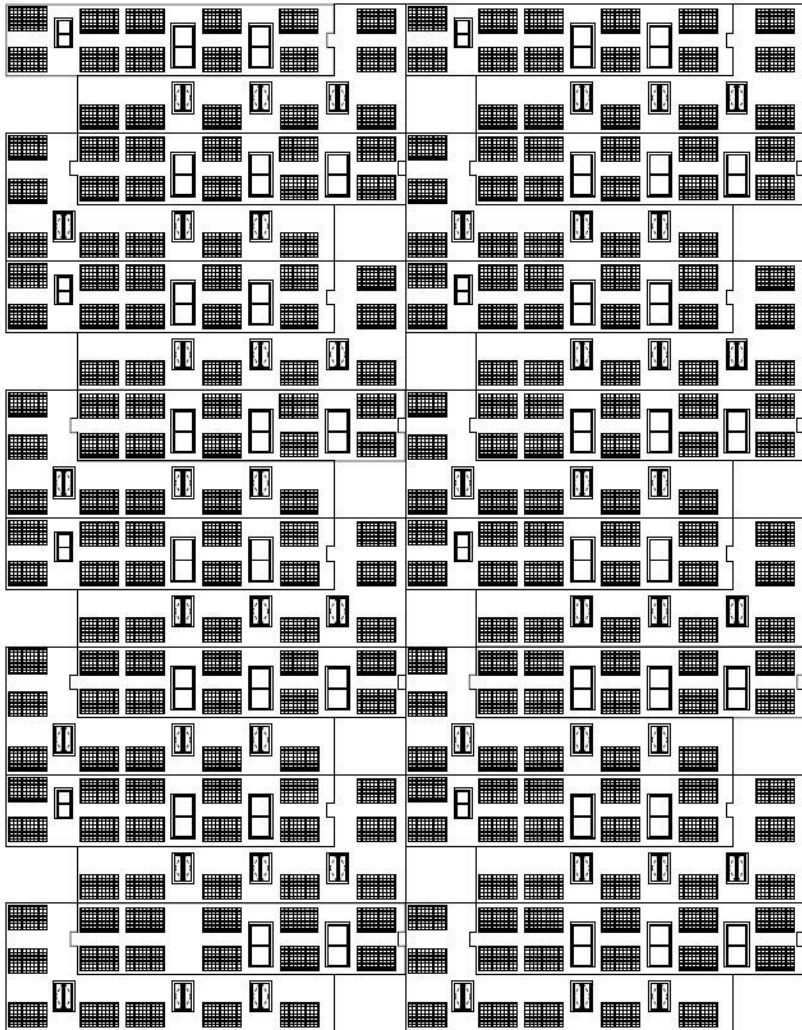


# *Unite Configurations*

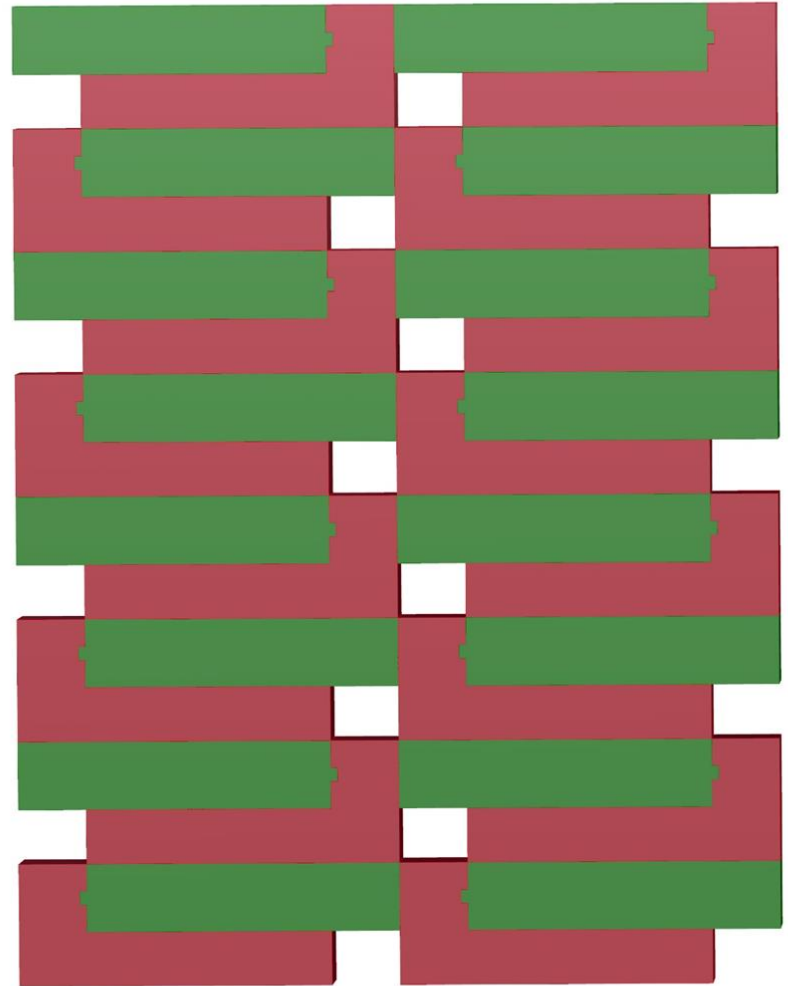
Low-Density 4 Units



# Elevation



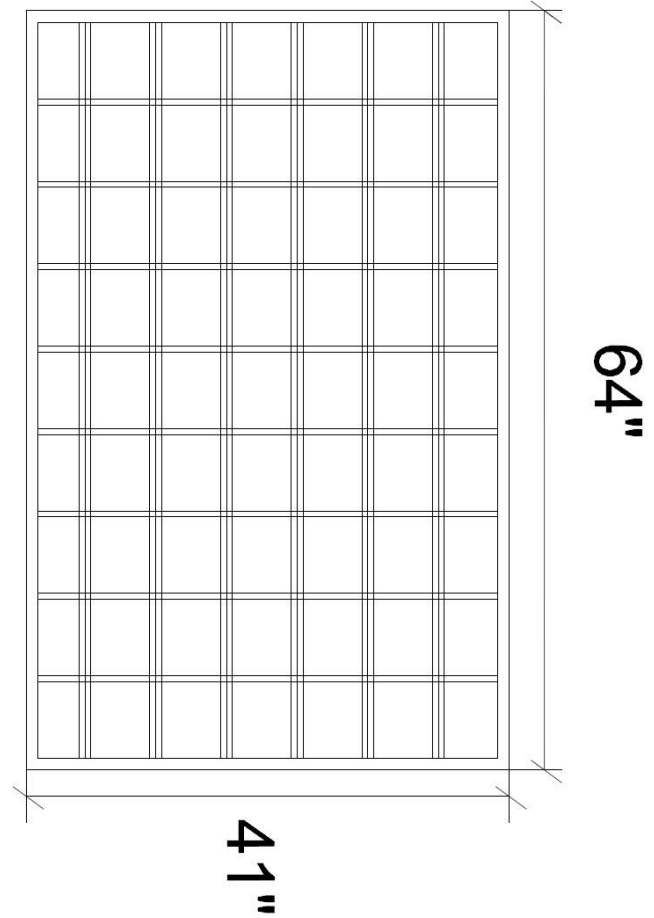
Low-Density 4 Units



**LUMOS**



**LSX250 Series**

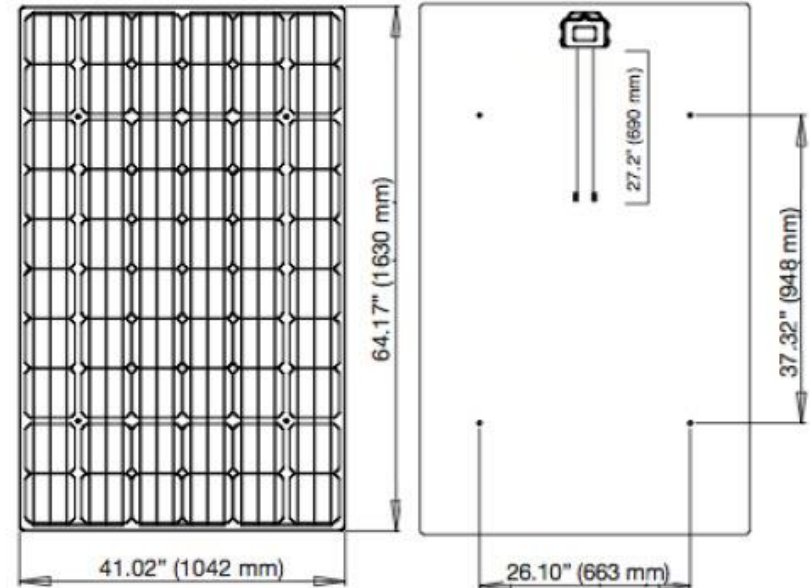


# Solar Panel Info

## LSX250 Series

### Mechanical Specifications

Solar Cell	Monocrystalline 6" x 6" (156mm x 156mm)
Number of Cells	60 (6 x 10)
Internal Bypass Diodes	6
Module Dimensions	64.17" x 41.02" x 1.38" (1630 mm x 1042 mm x 35 mm)
Module Area	18.28 ft <sup>2</sup> (1.70 m <sup>2</sup> )
Module Weight	62.6 lbs (28.4 kg)
Front Glass	.24" (6mm) Tempered Glass
Backsheet	Black, White, and Clear
LSX Rail Assembly Options	3-4 Portrait Module Lengths (Black Powdercoated Finish) 3 Landscape Module Lengths (Black Powdercoated Finish)
Output Cables	12 Awg. (690 mm) PV Wire with MC4 Connectors
Static Load	50 PSF (2400 Pa) Portrait
Hail	Maximum Diameter 1" (25 mm) at 52 mph (23 m/s)
Warranty	12 years at 90% of the rated power output 25 years at 80% of the rated power output
Certifications	ETL per UL-1703 & CEC listed

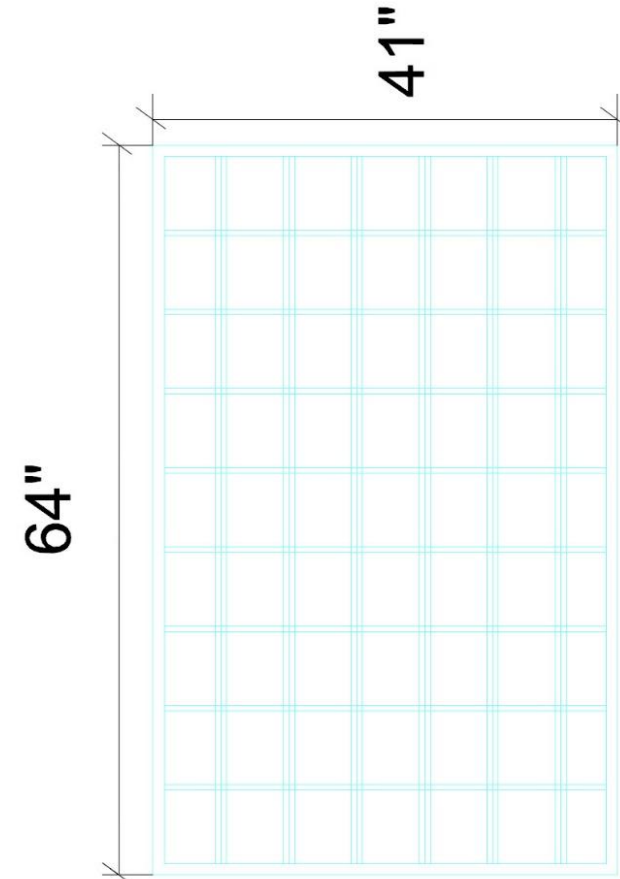




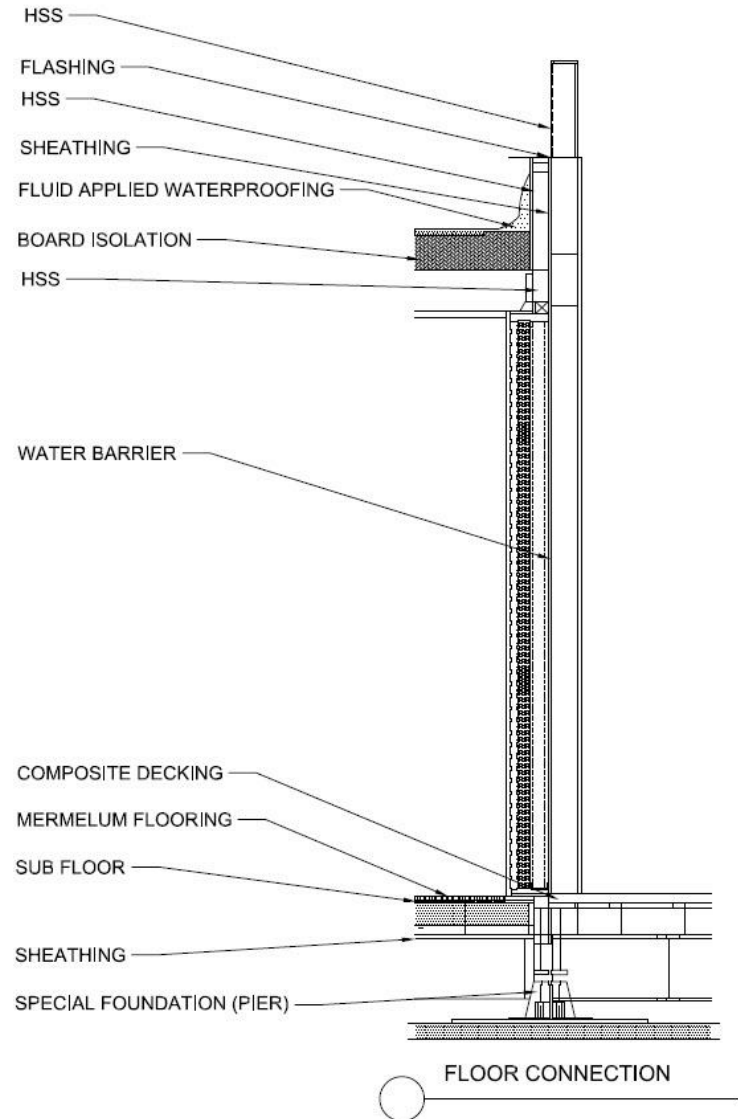
- A. Acceptable Module Types: Only crystalline silicon modules are acceptable. Thin film modules will not be considered for this project.
- B. General Requirements:
  1. Photovoltaic Modules: Factory assembled; consisting of photovoltaic cells, frame, junction box cables for series connection, and bypass diodes for shade tolerance; rated for 600 V DC; listed complying with UL 1703.
  2. Crystalline Silicon Photovoltaic Modules: Comply with IEC 61215.
  3. Frame: Frameless
  4. Factory-Installed Junction Box: Weatherproof, with factory-installed terminals and bypass diodes.
  5. Factory-Installed Cables: Type USE-2 or listed photovoltaic (PV) wire with polarized locking connectors.
  6. Unless otherwise indicated, specified module performance characteristics are rated under Standard Test Conditions (STC).
  7. Power Rating Tolerance: Plus or minus 3 percent

2.03 BALANCE OF SYSTEM COMPONENTS

- A. Photovoltaic Module Mounting System:
  1. Provide complete mounting system compatible with modules to be installed and suitable to properly install them in the location indicated, including all necessary hardware and accessories.
  2. Support Structure and Associated Hardware Materials: Use aluminum, galvanized steel, or stainless steel.
  3. Ground-Mounted Arrays:
    - a. Module Tilt Angle: As required to provide maximum energy production for installed location.
    - b. Foundation Type: As required for soil conditions at installed location.
- B. Photovoltaic Combiner Boxes:
  1. Provide combiner box(es) for termination of strings as indicated or as required for the array configuration installed.
  2. Combiner Boxes: Rated for 600 V DC; current ratings suitable for connected strings; equipped with terminal blocks; listed as complying with UL 1741.
  3. Terminal blocks: Suitable to receive wires indicated.
  4. Number of Input Circuits: As indicated or as required for termination of strings, with minimum of 25 percent spare capacity for future expansion.
  5. Enclosure: NEMA 250, Type 3R, unless otherwise indicated.
- C. Photovoltaic Inverters:



# Wall Section



# Solar Panel Detail

