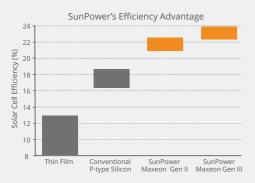
MAXEON™ GEN III SOLAR CELLS

Power Advantage

SunPower designs, manufactures, and delivers high-performance solar electric technology worldwide. SunPower™ cells produce 25-35% more power compared to Conventional Cells¹ with outstanding aesthetics.



Energy Advantage

SunPower panels deliver the highest energy per rated watt compared to a Conventional Panel. (Photon International, Mar 2013, out of 151 panels tested).

- No Light-Induced Degradation = 2 3% more energy.
- No Temperature Coefficient = 1 2% more energy at 35-40°C ambient temperature.
- Low Light and Broad Spectral Response = up to 1% more energy in overcast and low-light conditions.

As used throughout, "Conventional Cells" are silicon cells that have many thin metal lines on the front and 2 or 3 interconnect ribbons soldered along the front and back. "Conventional Panel" means a panel with 240W, 15% efficiency and approximately 1.6 m² made with Conventional Cells.

Durability Advantage

The Maxeon cell has strength and durability to survive extreme conditions year after year, enabling SunPower to provide superior, long-term performance in a broad range of applications.





- · Corrosion Resistance: SunPower's tin-copper metal system is more corrosion resistant compared to the porous metal paste used in Conventional Cells, which can crack more easily and corrode.
- Crack Resistance: SunPower's cells are thinner and more flexible than Conventional Cells. When a SunPower cell does crack, the backside copper metal foundation keeps the cell intact and maintains a high power output. When Conventional Cells crack, the cell breaks apart with typically a significant loss of power.
- Eco-Friendly: SunPower cells solder to lead-free components and are RoHS compliant. Conventional Cells often require components with lead.

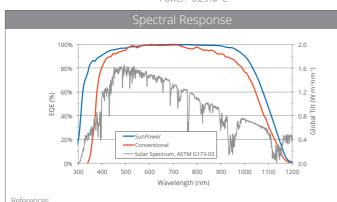


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Electrical Characteristics of a typical Maxeon Gen III Cell At Standard Test Conditions (STC) STC: 1000W/m², AM 1.5G and cell temp 25°C							
	Cell Bin	Pmpp (Wp)	Eff. (%)	Vmpp (V)	Impp (A)	Voc (V)	lsc (A)
Ultra Peak Performance	Me1	3.72	24.3	0.632	5.89	0.730	6.18
Ultra Premium Performance	Le1	3.62	23.7	0.621	5.84	0.721	6.15
Ultra High Performance	Ke1	3.54	23.1	0.612	5.79	0.713	6.11

Electrical parameters are nominal values

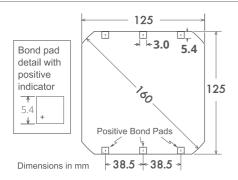
Temp.Coefficients in SunPower Panels: Voltage: -1.74mV/°C, Current: 2.9mA/°C,



SunPower: NREL data, commissioned by SPWR Conventional: Progress in Photovoltaics: Research and Applications, Solar cell efficiency tables, version 36 18(5), (2010) 46-352

Wafer: Monocrystalline silicon Design: All back contact Front:

Uniform, black antireflection coating Back: Tin-coated, copper metal grid Cell Area: Approximately 153cm² Cell Weight: Approximately 6.5grams Cell Thickness: 150μm +/- 30μm



Bond pad area dimensions are 5.4mm x 3.0mm Metal finger pitch between positive and negative fingers is 471um. Positive/Negative pole bond pad sides have "+/-" indicators on leftmost and rightmost bond pads

If cell voltage is below frame ground the cell power output will be reduced. Therefore, modules and systems produced using these cells should be configured as "positive ground systems." If this creates a problem, please consult with SunPower.



SunPower recommends customers use SunPower's patented tin-plated copper strain-relieved interconnect tabs, which can be purchased from SunPower. These interconnects are easily solderable and compatible with lead free processing. Tabs weigh approximately 0.3 grams.

Our patented interconnect tabs are packaged in boxes of 3600 or 36,000 each.

http://us.sunpower.com/about/sunpower-technology/patents/

ISO 9001:2015 certified

Soft handling procedures to reduce breakage and crack formation

100% cell performance testing and visual inspection

Cells are packed in boxes of 1500 each; grouped in 10 shrink-wrapped stacks of 150 with interleaving. 24 boxes are packed in a water-resistant "Master Carton" containing 36,000 cells suitable for air transport.

Customers shall not reverse engineer, disassemble or analyze the Solar Cells or any prototype, process, product, or other item that embodies Confidential Information of SunPower. Customers shall not cause or allow any inspection, analysis, or characterization of any properties (whether mechanical, structural, chemical, electrical, or otherwise) of the Solar Cells, whether by itself or by a third party.

Customer agrees that it will not transfer (whether by sale, loan, gift, or other conveyance) the Solar Cells from its possession.

SunPower solar cells are provided "AS IS" without warranty.

Full terms and conditions are in the Cell Purchase Agreement

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