

Thin Film CIGS

Flexible solar Module



Model: WSLE 0450-24

Product Characteristics

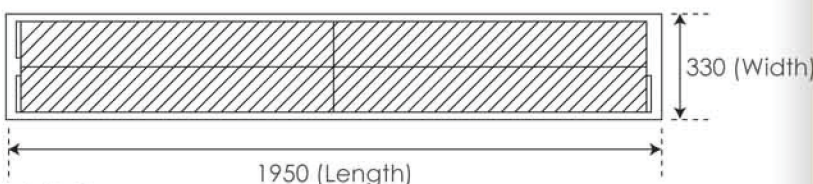
Ascent Solar's proprietary monolithically integrated processing techniques enable Copper Indium Gallium Diselenide (CIGS) to be deposited onto high temperature plastic substrate, resulting in the most flexible CIGS module till date.

99% of the light incident on CIGS is absorbed in the 1st micrometer layer, thus very thin solar modules are possible. CIGS has one of the highest current densities of any semiconductor material, can produce higher current outputs, and thus produce more power in less area. These films retain their performance properties better than most semiconductors.

Electrical Characteristics

Peak Power Output (Wp)	: 45W +/- 10%
Peak Operating Voltage (vmp)	: 16.3V
Peak Operating Current (Imp)	: 2.76A
Open Circuit Voltage (Voc)	: 23.5V
Short Circuit Current (Isc)	: 3.35A
Maximum System Voltage	: 1000V
Temperature coefficient of Imp	: +0.01% / °C
Temperature coefficient of Vmp	: -0.51% / °C
Temperature coefficient of Pmax	: -0.50% / °C

Physical Characteristics



Weight 1.3kg



The largest highest efficiency, monolithically interconnected CIGS module on flexible polyimide, excellent for stand-alone and Grid-Tie applications. It has a beautiful texture, and is superior among flexible solar modules, a dream for innovative architects.

Certificates

IEC61646 by Intertek Testing Services since October, 2008.

Limited Warranties

Power Output: 80% of minimum power for a period of 10 years. Please consult us for extended warranties.

Material and Workmanship: 2 years.

Notice

Electrical output may exceed specified ratings for the first 2-3 months of use.

Electrical specifications are based on measurements on module performance at Standard Test Conditions (STC), at irradiance of 1000W/m², air mass of 1.5, and cell temperature of 25°C.

Specifications can be subjected to change without prior notice.

Polymeur Sun Singapore distributes the flexible modules, but is not the manufacturer of the product. For enquiries, please send email to query@polymeur.com