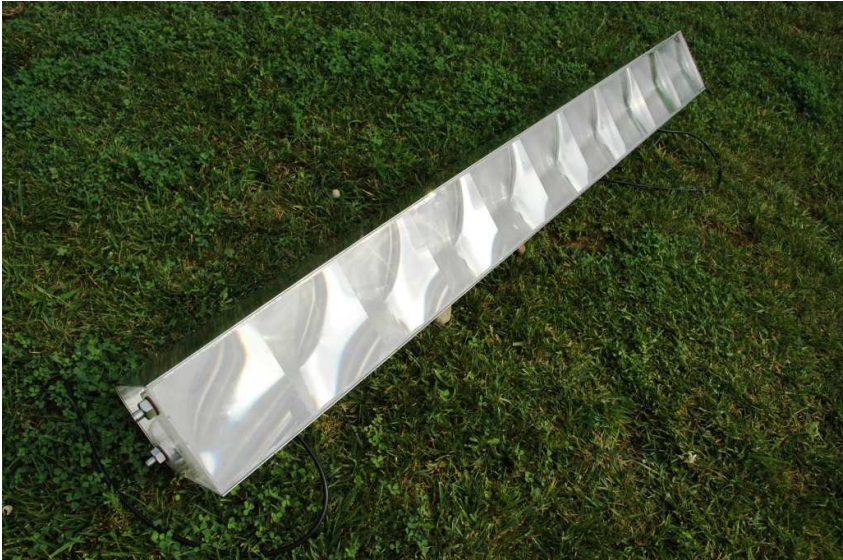


M40 HCPV MODULES

High concentration photovoltaic modules



Our M40 HCPV modules have been designed to yield best performance and durability at a very competitive cost.

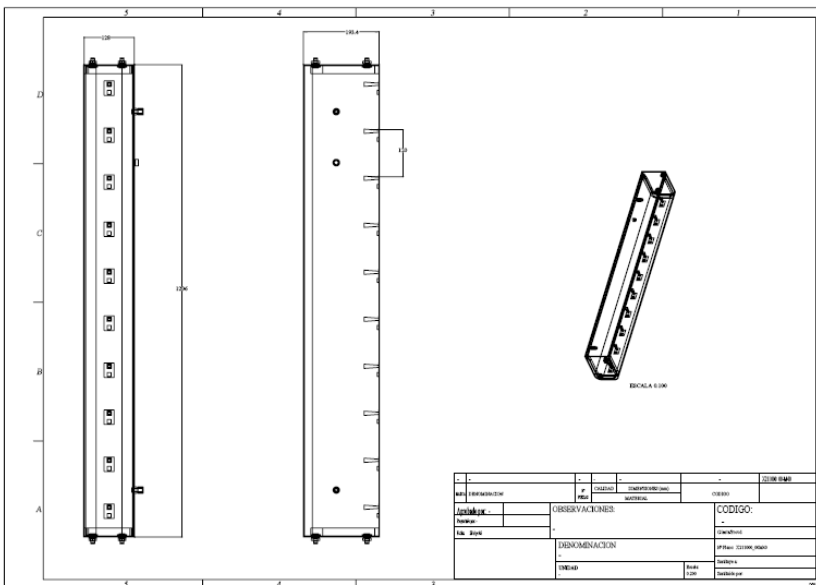
Each module has 10 triple-junction high efficiency cells. Each cell is attached to a secondary optical element, and this helps increasing the module angular acceptance to +/- 1,15 degrees.

An efficiency of up to 26% and 37 W of power can be achieved under standard conditions, at 1000 W/m² direct normal irradiance and 25°C cell temperature.

Thanks to this efficiency and a concentration ratio of 476 suns our module uses approximately 900 times less semiconductor than a crystalline flat panel.

A temperature coefficient roughly halving that of a flat panel and a dissipation surface 3,5 times larger than the solar aperture area means that the temperature losses are very low, thus improving the PR.

Our modules are designed to be integrated in any two axis tracking system having +/- 0,5 degrees tracking accuracy. We can offer them already assembled and cabled into module grids.



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M40 module features

The module has the following physical features:

Cells per module	10
Solar aperture	0,144 m ²
Dimensions	1206x130x194 mm
Weight	2,7 Kg
AHA	1,15 degrees

Electrical characteristics

We offer our modules into three classes of 32W, 35W and 37W +/- 5%:

Class	A	B	C
Cell efficiency	32%	31%	30%
Module efficiency	26%	24%	22%
Voc	29 V		
Isc	1,5 A	1,42 A	1,30 A
Vmpp	26 V		
Imp	1,43 A	1,36 A	1,24 A
FF	86%		
Power @1000W/m ² DNI & 25 °C Tamb	37 W	35 W	32 W
Power @850W/m ² DNI & 25 °C Tamb	31 W	30 W	27 W
Temperature coefficient Voc	-0,159 %/°C		
Temperature coefficient Pmpp	-0,085 %/°C		