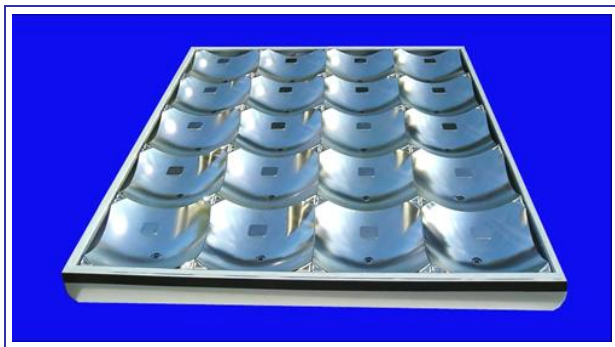


### 300-Watt CPV Panel



Size: 112 x 90 x 7 cm

### Key Features

- High Efficiency
- Light Weight
- Easy Deployment
- Low Cost

### Primary Applications

- Solar Power Generation

### Product Description:

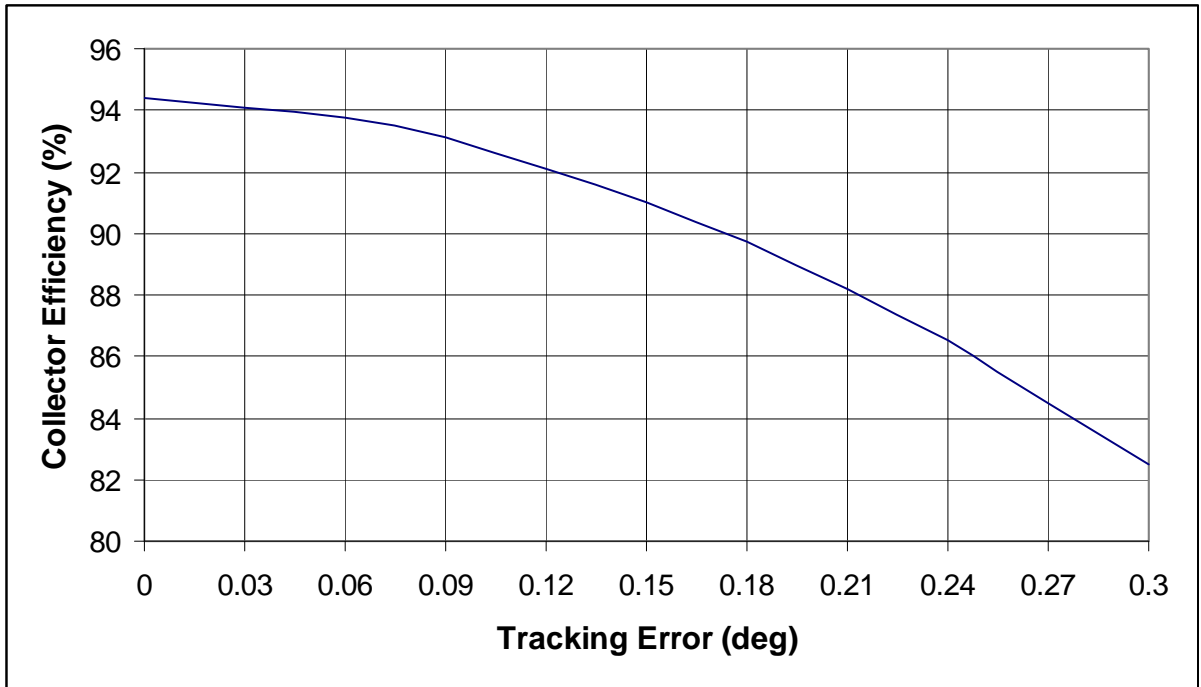
Concentrated photovoltaic (CPV) module with high conversion efficiency, lower cost, and reduced tracking accuracy resulting in overall lower cost of electricity per kilowatt-hour. This CPV module incorporates several patent pending design and manufacturing innovations that dramatically reduce the cost and increase the efficiency of concentrated solar energy applications.

The module employs Cassegrain type solar collectors and triple-junction solar cells to deliver industry leading conversion efficiency.

### Product Characteristics

Parameter	Value	Unit
Module total aperture	1.0	m <sup>2</sup>
Total power collected by aperture	953	Watts
Concentration ratio	500:1	
Number of collectors/cells	20	
Collector efficiency	0.94	
Optical efficiency	0.91	
Solar cell efficiency (triple junction)	0.385	
Module efficiency	0.315	
Module output power (min)	300	Watts
Voc	28	VDC
Isc	14	Amps
Module output voltage (Vmpp)	22.1	VDC
Module output current (Impp)	13.6	Amps

## Collector Efficiency Versus Tracking Error



## Collector Ray Trace

