

## Cotech Solar Monocrystalline Silicon Modules CS6M24-250-300W

### Features

- ❖ Low voltage-temperature coefficient allows higher power output at high-temperature condition.
- ❖ High conversion efficiency, High reliability with guaranteed  $\pm 3\%$  power output tolerance, ensuring return on investment
- ❖ Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variation.
- ❖ Custom design with wide power selection down to 5W

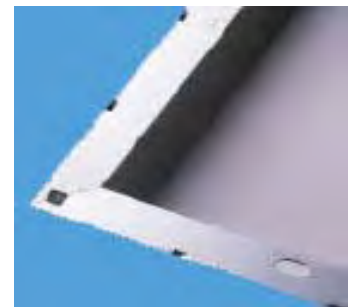
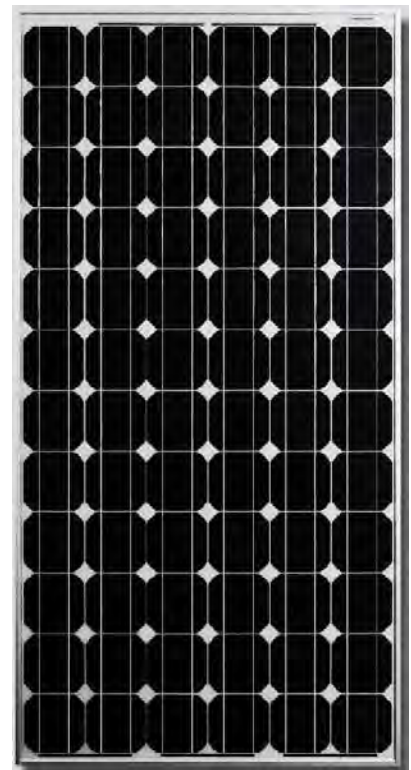
### Quality and Safety

- ❖ 5 years workmanship warranty, 12 years 90% power output, 25 years 80% power output
- ❖ Rigorous quality control meeting the highest international standards ISO 9001:2000 and ISO 14001:2004 certified factories manufacturing world class products
- ❖ CE, IEC61215, IEC61730, TUV, VDE and UL1703

### Materials

- ❖ Advanced EVA encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation
- ❖ The sturdy, anodized aluminum frame allows the modules to be mounted on a variety of standard racking systems and to withstand harshest conditions
- ❖ Ultra reliable bypass diodes prevent damage through overheating due to shaded or defective cells
- ❖ Innovative, environmentally friendly packing method using pile-edges ensures modules arrive in perfect condition
- ❖ New frame design incorporating drainage holes, with more grounding holes, provide flexible installation and use

CS6M24-250 CS6M24-260  
CS6M24-270 CS6M24-280  
CS6M24-290 CS6M24-300



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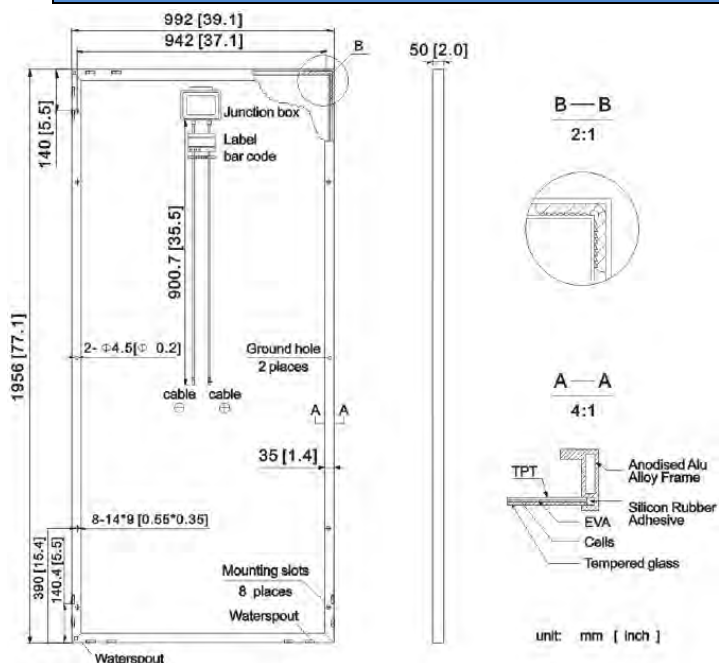
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### Electrical Characteristics

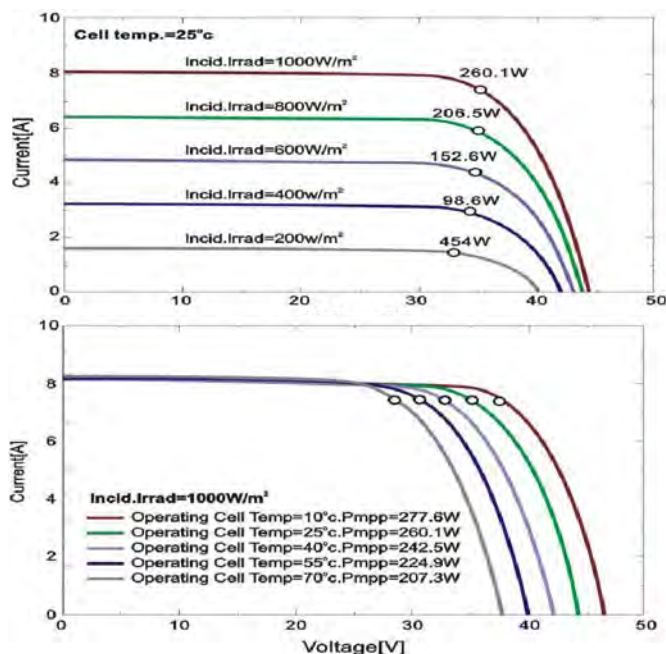
Type	CS6M24- 250	CS6M24-260	CS6M24-270	CS6M24-280	CS6M24-290	CS6M24-300
Nominal Maximum Power (Pmax)	250W	260W	270W	280W	290W	300W
Optimum Operating Voltage (Vmp)	35.20V	36.00V	36.40V	36.72V	37.2V	37.6V
Optimum Operating Current (Imp)	7.12A	7.23A	7.42A	7.63A	7.79A	8.06A
Open Circuit Voltage (Voc)	43.38V	43.49V	43.63V	43.78V	37.0V	37.3V
Short Circuit (Isc)	7.81A	7.84A	7.90A	7.96A	8.01A	8.06A
Maximum Series Fuse Rating	15A					
Dimensions	1956×992×50mm					
Weight	27.0kg					
Operating Temperature	-40 ℃ ~+85 ℃					
Maximum System Voltage	1,000V (IEC) /600V (UL)					
Power Tolerance	±3%					
Temp. Coeff. of Pmax (TK Pmax)	-0.45℃					
Temp. Coeff. of Voc (TK Voc)	-0.35 %/℃					
Temp. Coeff. of Isc (TK Isc)	0.060 %/℃					
Nominal Operating Cell Temp.	45℃					
Cell Type and Arrangement	Monocrystalline Silicon, 156mm x 156mm,72pcs(6x12) in series					
Glass ,Type and Thickness	High Transmission ,Low Iron, Tempered Glass 3.2mm					

Under Standard Test Conditions (STC) of irradiance of 1000W/m2, spectrum AM 1.5 and cell temperature of 25

### Module Diagram



### I-V Curves-CS6M24-280W



### Brief Introduction

Cotech Solar is one of the few large-scale solar companies in China, designs, manufactures and sells solar modules and designs, assembles, sells and installs solar systems. The annual production capability of solar modules is more than 120MW and have passed UL,TUV, IEC, VDE and CE certification.