

Cotech Solar Monocrystalline Silicon Modules CS5M24-155-190W

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

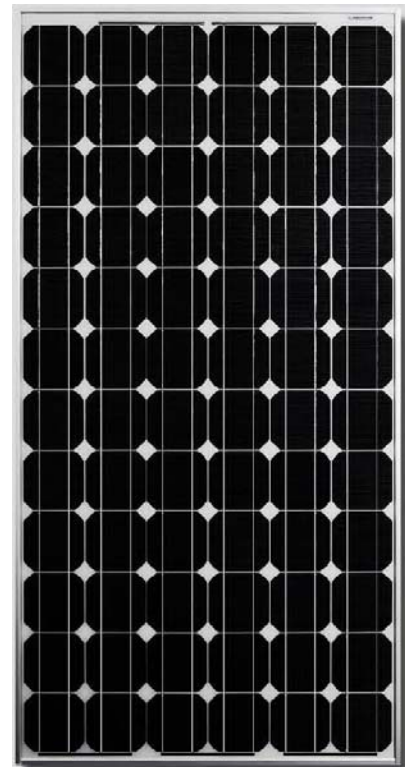
Quality and Safety

- ✧ 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 hexagonal shaped drainage holes, with more grounding holes, provide flexible installation and use

CS5M24-155 CS5M24-160
 CS5M24-165 CS5M24-170
 CS5M24-175 CS5M24-180
 CS5M24-185 CS5M24-190



COTECH SOLAR GROUP LIMITED

No. 580, Zhengli Rd, Yangpu District, Shanghai, China

TEL: 0086-21-55665687 FAX: 0086-21-55665634

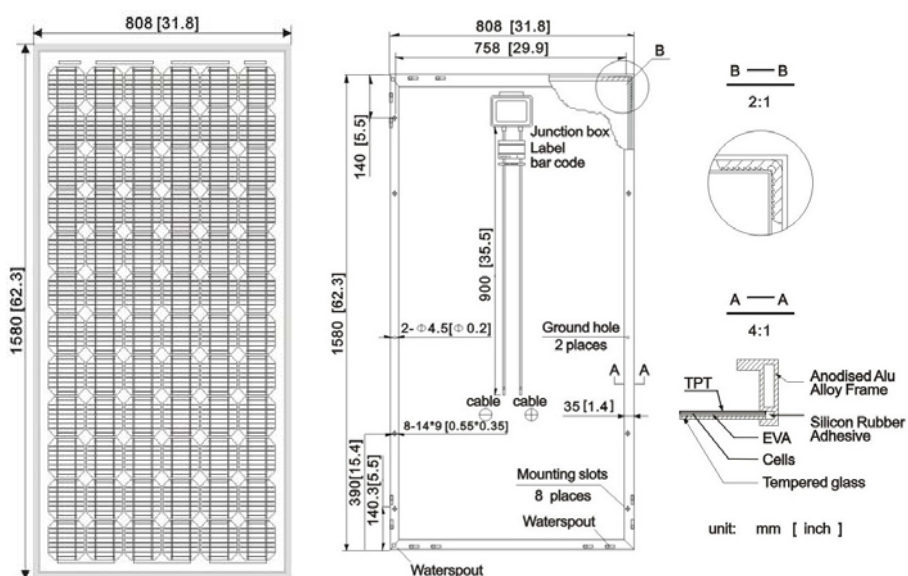
WEBSITE: www.cotechsolar.com EMAIL: info@cotechsolar.com

Electrical Characteristics

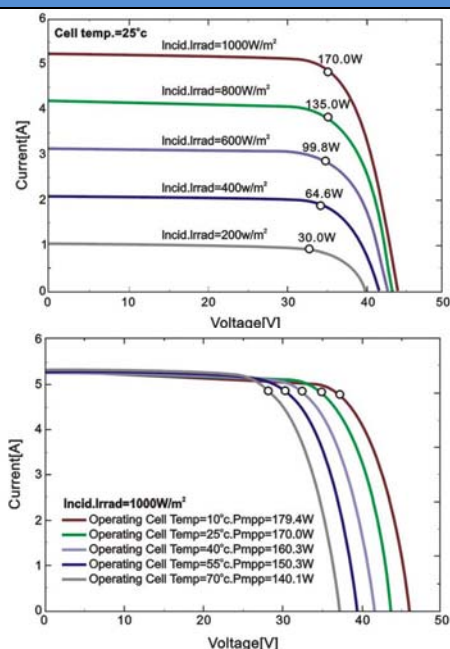
Type:CS5M24	5M24-155	5M24-160	5M24-165	5M24-170	5M24-175	5M24-180	5M24-185	5M24-190
Nominal Maximum Power (Pmax)	155W	160W	165W	170W	175W	180W	185W	190W
Optimum Operating Voltage (Vmp)	34.6	34.9V	35.2	35.5V	35.8	36.1V	36.4	36.7
Optimum Operating Current (Imp)	4.30	4.58A	4.69	4.79A	4.89	4.99A	5.08	5.18
Open Circuit Voltage (Voc)	43.4	43.6V	43.8	44.1V	44.3	44.5V	44.7	44.9
Short Circuit (Isc)	4.86	4.97A	5.08	5.19A	5.30	5.40A	5.51	5.62
Operating Temperature	-40 °C ~+85 °C							
Maximum System Voltage	1,000V (IEC) /600V (UL)							
Maximum Series Fuse Rating	10A							
Power Tolerance	±3%							
Temp. Coeff. of Pmax (TK Pmax)	-0.45°C							
Temp. Coeff. of Voc (TK Voc)	-0.35 %/°C							
Temp. Coeff. of Isc (TK Isc)	0.060 %/°C							
Nominal Operating Cell Temp.	45°C							
Cell Type and Arrangement	Monocrystalline Silicon, 125mm x 125mm, 72 (6×12) in series							
Glass ,Type and Thickness	High Transmission ,Low Iron, Tempered Glass 3.2mm							
Dimensions	1580×808×50 mm(62.20×31.81×1.97 inch)							
Weight	16kg							

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

Module Diagram



I-V Curves-CS5M24-170W



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.