Join the Energy Revolution!

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Virtus®

Virtus®

Virtus® represents the highest technological of Quasi-Mono products in the industry. Based on the traditional multicrystalline casting furnace, adopting hotzone and processing technical developed by ReneSola, it's capable to produce the Quasi-Mono wafer, those performance is much closer to mono wafer by Czochralski technology.

Virtus® is able to improve the average conversion efficiency of conventional multicrystalline wafers from 16.5% to more than 18.2%. The efficiency of modules approaches or exceeds general monocrystalline modules. Virtus® is much lower than monocrystalline in both energy consumption and manufacturing costs, which helps reduce the overall investment in photovoltaic systems, thus improving the rate of return on investment.

Virtus® Advantages:

- Advanced texturing and coating technologies
- Lower production cost
- Excellent electricity generation capacity under high temperature
- Lower light induced degradation
- Higher efficiency

Virtus® Features

Higher Efficiency
The average efficiency of (High-end (V +)) product cells can reach 18.2%

Larger Area
Rectangular shape, increasing the area of power generation

Quicker Return
Reduce the total investment of PV systems and shorten the time of return on investment

Lower LID
Light induced degradation(LID) is significantly lower than that of monocrystalline cells

Less Power Loss
CTM Power Loss is lower than that of monocry-stalline cells

About ReneSola

Established in 2005, ReneSola Ltd. (NYSE: SOL) is a leading global photovoltaic manufacturer with our own R&D team, advanced production equipment and deep production experience. ReneSola has 17 subsidiaries, with our own production bases distributed in Zhejiang Jiashan, Jiangsu Wuxi and Sichuan Meishan. We specialize in the R&D and manufacturing of polysilicon, silicon wafer and solar modules and are one of the few large Solar conglomerates with vertically integrated operations from virgin polysilicon to photovoltaic systems in the global photovoltaic industry.

ReneSola was listed on the New York Stock Exchange (NYSE:SOL) in 2008. Our products have been delivered all over the world since our establishment. We have locations worldwide with sales branches established in Europe, the Americas and the Asia-Pacific regions, providing customers with timely services and high-quality photovoltaic products.

With our innovative technology capabilities and quality products, ReneSola is actively expanding the downstream business, providing integrated solutions for commercial, agricultural and large-scale projects to tirelessly and continuously improve the strategic status of solar energy and to further improve our innovative capability.

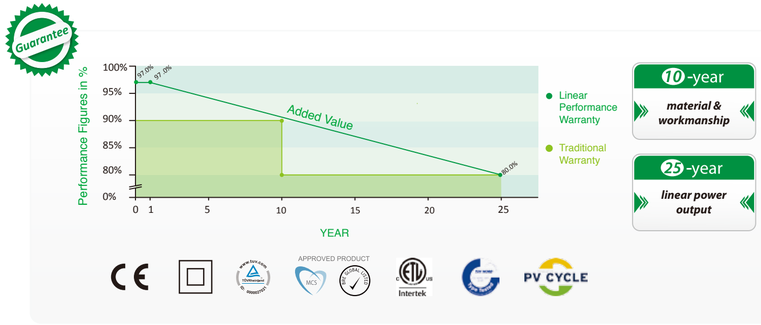
ReneSola

Virtus®

Virtus Module

250W, 255W, 260W

- **High Module Conversion Efficiencies**
- **Easy Installation and Handling**
- **Mechanical Load Capability of up to 5400 Pa**
- **Conforms with IEC 61215:2005, IEC 61730: 2004, UL 1703 PV Standards**
- **ISO9001, OHSAS18001, ISO14001 Certified**



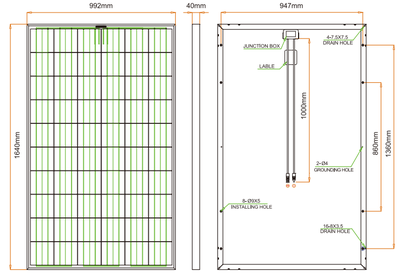
APPROVED PRODUCT

ReneSola

Virtus Module

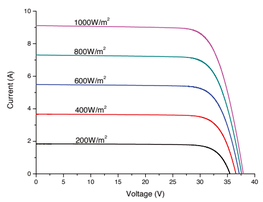
250W, 255W, 260W

Dimensions



Drawing Only for Reference

I-V Curves



Varied Irradiation Efficiencies

Irradiance	200W/m²	400W/m²	600W/m²	800W/m²	1000W/m²
Efficiency	15.7%	16.0%	16.1%	16.1%	16.0%

Electrical Characteristics STC	JC250M-24/Bbv	JC255M-24/Bbv	JC260M-24/Bbv
Maximum Power (Pmax)	250 W	255 W	260 W
Power Tolerance	0 ~ +5W	0 ~ +5W	0 ~ +5W
Module Efficiency	15.4%	15.7%	16.0%
Maximum Power Current (Imp)	8.29 A	8.43 A	8.56 A
Maximum Power Voltage (Vmp)	30.2 V	30.3 V	30.4 V
Short Circuit Current (Isc)	8.84 A	8.98 A	9.09 A
Open Circuit Voltage (Voc)	37.3 V	37.4 V	37.6 V

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m² , Cell Temperature 25°C)

Electrical Characteristics NOCT	JC250M-24/Bbv	JC255M-24/Bbv	JC260M-24/Bbv
Maximum Power (Pmax)	186 W	189 W	193 W
Maximum Power Current (Imp)	6.59 A	6.69 A	6.77 A
Maximum Power Voltage (Vmp)	28.2 V	28.2 V	28.5 V
Short Circuit Current (Isc)	7.13 A	7.20 A	7.27 A
Open Circuit Voltage (Voc)	35.0 V	35.0 V	35.2 V

Values at Normal Operating Cell Temperature, Irradiance of 800 W/m² , spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Cell Type	**156 x156 mm Virtus, 60 (6x10) pcs in series**
Glass	**High Transmission, Low Iron, Tempered Glass**
Frame	**Anodized Aluminum Alloy**
Junction Box	**IP65/IP67 rated, with bypass diodes**
Dimension	***1640 x 992 x 40 mm**
Output Cable	**4 mm² (EU)/12 AWG (US), 1000 mm**
Weight	**19 Kg**
Installation Hole Location	**See Drawing Above**

Characteristics

Temperature Coefficient of Voc	**-0.29%/°C**
Temperature Coefficient of Isc	**0.04%/°C**
Temperature Coefficient of Pmax	**-0.39%/°C**
Nominal Operating Cell Temperature (NOCT)	**45°C±2°C**

Packing Information

Container	**20' GP**	**40' GP**	**40' HQ**
Pallets per Container	**12**	**28**	**28**
Pieces per Container	**300**	**700**	**770**

Maximum Ratings

Operating Temperature	**-40°C ~ + 85°C**
Maximum System Voltage	**1000VDC (EU) / 600VDC (US)**
Maximum Series Fuse Rating	**20A (EU) / 15A (US)**

Rev No: JC/TDS/2012.06 *Contact Renesola for tolerance specification