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Virtus® II

The new, breakthrough, Virtus®II solar module is an ingenious combination of the high quality and efficiency of Monocrystalline modules, with the lower cost of Multicrystalline modules.

ReneSola's innovative ingot growth technology improves the uniformity of the grain size and preferred orientation, resulting in higher minor-carrier lifetime and lower dislocation density. The outcome is significantly increased cell efficiency.

The company's innovative, controlled, DDS production process for the Virtus® A++ wafers produces far fewer defects than conventional multicrystalline silicon wafers. This enables Virtus®II solar modules to achieve a 4% higher power output, yet maintain the same LID and CTM loss.

Virtus® II Features

- Lower production costs
- Higher power output
- PID-free
- Improved appearance
- lower defect concentration in wafer

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

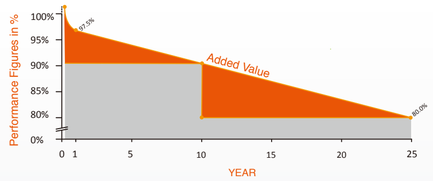
Virtus® II Module

250W, 255W, 260W

- Efficiency — **High Module Conversion Efficiencies**
- easy & quick — **Easy Installation and Handling**
- ~ 2400Pa ~ ~ 5400Pa ~ — **Mechanical Load Capability of up to 5400 Pa**
- IEC & — **Conforms with IEC 61215:2005, IEC 61730: 2004, UL 1703 PV Standards**
- ISO Certification — **ISO9001, OHSAS18001, ISO14001 Certified**

PID-free

Guarantee



10-year *material & workmanship*

25-year *linear power output*

cULus LISTED · CE · APPROVED PRODUCT · ETL Intertek · PV CYCLE

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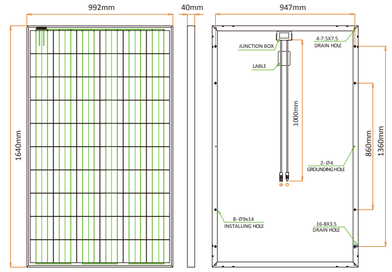
Virtus® II Module

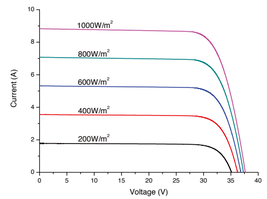
250W, 255W, 260W

Dimensions



Drawing Only for Reference

I-V Curves



Varied Irradiation Efficiencies

Irradiance	200W/m²	400W/m²	600W/m²	800W/m²	1000W/m²
Efficiency	15.8%	16.2%	16.2%	16.1%	16.0%

Electrical Characteristics STC	JC250M-24/Bb	JC255M-24/Bb	JC260M-24/Bb
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)	8.31 A	8.39 A	8.53 A
Maximum Power Voltage (Vmp)	30.1 V	30.4 V	30.5 V
Short Circuit Current (Isc)	8.83 A	8.86 A	8.95 A
Open Circuit Voltage (Voc)	37.4 V	37.5 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/Bb	JC255M-24/Bb	JC260M-24/Bb
Maximum Power (Pmax)	185 W	189 W	193 W
Maximum Power Current (Imp)	6.57 A	6.63 A	6.74 A
Maximum Power Voltage (Vmp)	28.2 V	28.5 V	28.6 V
Short Circuit Current (Isc)	7.12 A	7.20 A	7.27 A
Open Circuit Voltage (Voc)	35.0 V	35.1 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	**Virtus II (Polycrystalline) 156 x156 mm, 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	**-0.30%/°C**
Temperature Coefficient of Isc	**0.04%/°C**
Temperature Coefficient of Pmax	**-0.40%/°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/2012.11 *Contact Renesola for tolerance specification