

Virtus® Module

300W, 305W, 310W



High Module Conversion Efficiencies



Easy Installation and Handling for Various Applications



Mechanical Load Capability of up to 5400 Pa



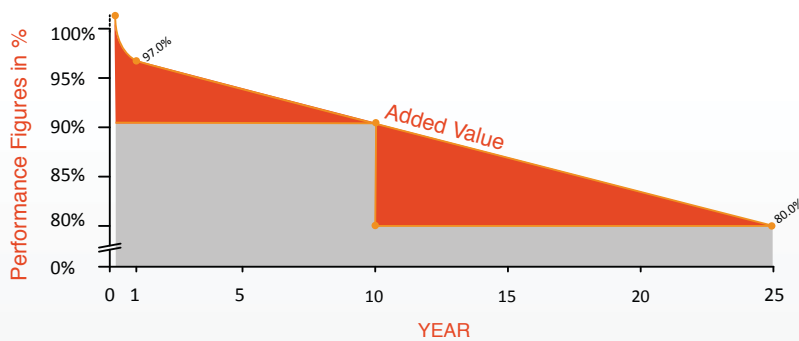
**Conforms with IEC 61215:2005,
IEC 61730: 2004, UL 1703 PV Standards**



ISO9001, OHSAS18001, ISO14001 Certified



Application Class A, Safety Class II, Fire Rating C



10-year
material & workmanship

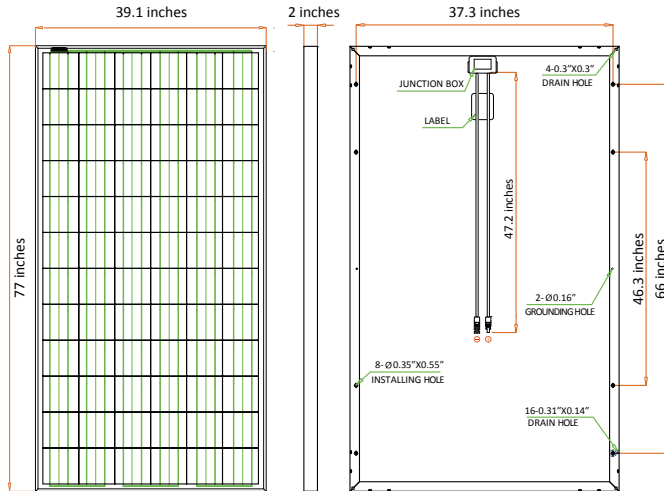
25-year
linear power output



APPROVED PRODUCT

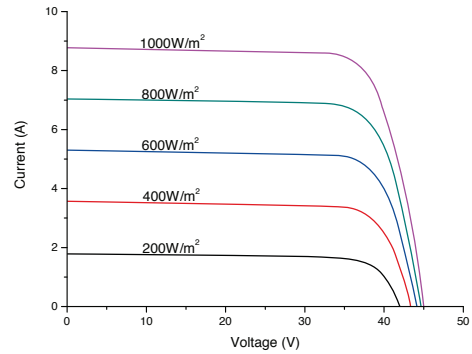


Dimensions



Drawing Only for Reference

I-V Curves



Varied Irradiation Efficiencies

Irradiance	200W/m ²	400W/m ²	600W/m ²	800W/m ²	1000W/m ²
Efficiency	15.4%	16.0%	16.1%	16.1%	16.0%

Electrical Characteristics STC

	JC300M-24/Abv	JC305M-24/Abv	JC310M-24/Abv
Maximum Power (P _{max})	300 W	305 W	310 W
Power Tolerance	0 ~ +5W	0 ~ +5W	0 ~ +5W
Module Efficiency	15.5%	15.7%	16.0%
Maximum Power Current (I _{mp})	8.16 A	8.23 A	8.36 A
Maximum Power Voltage (V _{mp})	36.8 V	37.1 V	37.1 V
Short Circuit Current (I _{sc})	8.67 A	8.75 A	8.78 A
Open Circuit Voltage (V _{oc})	44.8 V	44.9 V	45.1 V

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

Electrical Characteristics NOCT

	JC300M-24/Abv	JC305M-24/Abv	JC310M-24/Abv
Maximum Power (P _{max})	223 W	226 W	230 W
Maximum Power Current (I _{mp})	6.66 A	6.72 A	6.85 A
Maximum Power Voltage (V _{mp})	33.5 V	33.6 V	33.6 V
Short Circuit Current (I _{sc})	7.01 A	7.06 A	7.08 A
Open Circuit Voltage (V _{oc})	41.9 V	42.0 V	42.2 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	6 inches Virtus, 72 (6x12) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65/IP67 rated, with bypass diodes
Dimension	*77 x 39.1 x 2 inches
Output Cable	12 AWG, 47.2 inches
Weight	63.9 lbs
Installation Hole Location	See Drawing Above

Characteristics

Temperature Coefficient of V _{oc}	-0.29%/°C
Temperature Coefficient of I _{sc}	0.04%/°C
Temperature Coefficient of P _{max}	-0.39%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

Packing Information

	20' GP	40' GP	40' HQ
Container			
Pallets per Container	10	24	24
Pieces per Container	200	480	528

Rev No: JC/TDS/2013.02 *Contact Renesola for tolerance specification
CAUTION: All rights reserved. Design and specification are subject to change without prior notice.

Maximum Ratings

Operating Temperature	-40°F ~ +185°F
Maximum System Voltage	1000VDC (EU) / 600VDC (US)
Maximum Series Fuse Rating	20A (EU) / 20A (US)