

## Quality Without Compromise

At Eclipsall, we've made a company wide commitment to quality and we meet that commitment every day. At our state-of-the-art facility located in Toronto, our dedication to superior quality and performance extends to every aspect of our operation. We use Tier 1 European manufacturing technology to produce best-in-class solar modules. We offer 100% defect detection and flash testing with output sorting, again ensuring maximum performance and quality. Combine this with superior performance, a flexible range of product options and features, an industry leading 25 year linear performance warranty and you have it – a superior solar module from a company that prides itself on delivering only the best.

## Superior Performance

- Module efficiency up to 15%
- Positive power tolerance range 0 to 5W maximizing value per watt
- 3 bus bar design provides higher power output and increased performance

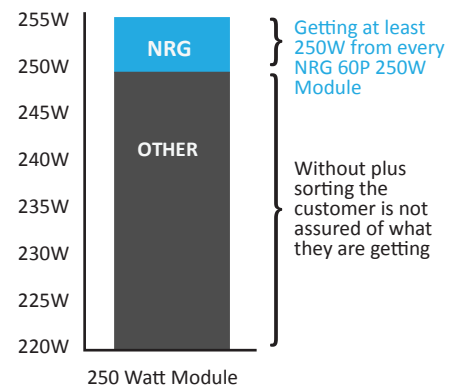
## Product Features

- 4mm low iron – high transmittance tempered solar glass on all panels providing greater strength for heavy snowloads, high winds, transport, and installation
- Impact and load tested to 5400Pa
- 2mm thick anodized aluminum frame with low profile weather-edge providing easier run-off for rain, snow and debris

## Product Options

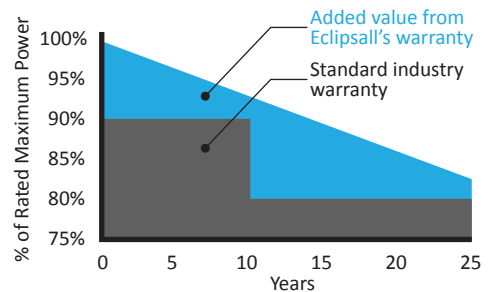
Eclipsall NRG modules are available in various frame and backsheet colour options.

## Positive Power Sorting



## Industry Leading Warranty

Eclipsall provides a 25-year linear performance guarantee



## Electrical Data

Type	NRG60 230P	NRG60 235P	NRG60 240P	NRG60 245P	NRG60 250P
Rated Maximum Power at STC - Pmax(W)	230W	235W	240W	245W	250W
Maximum Power Voltage - Vmp(V)	29.35	29.58	29.73	30.09	30.26
Maximum Power Current - Imp(A)	7.83	7.96	8.07	8.14	8.27
Open Circuit Voltage - Voc(V)	37.01	37.14	37.33	37.53	37.71
Short Circuit Current - Isc(A)	8.34	8.45	8.53	8.66	8.74
NOCT	45+ / -2°C				
Operating Temperature	-40 to +85°C				
Max System Voltage	1000V (IEC) / 600V (UL)				
Fuse rating	15A				
Power Tolerance	0 to 5W				
Temperature Coefficients	Pmax	-0.449 %/°C			
	Voc	-0.311 %/°C			
	Isc	0.059 %/°C			

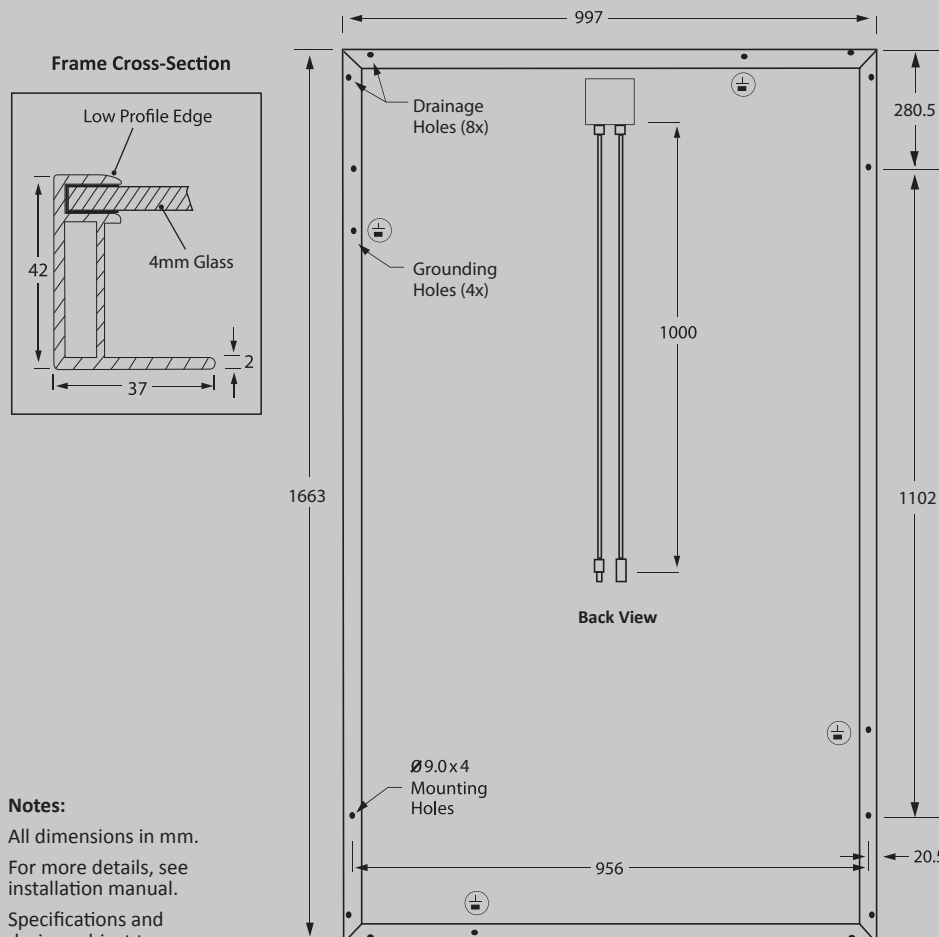
\*Note: Power specification under standard test conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM = 1.5, and module temp of 25°C

## Module Design

Cell Type	Poly-crystalline, 3 Bus Bar
Cell Configuration	60 (156 x 156mm)
Dimensions (LxWxH)	1663 x 997 x 42mm
Weight	22kg
Frame	Extruded & Anodized Aluminum Profile
Solar Glass	4mm, Tempered, Ultra Clear, Low Iron
Encapsulation	Glass - EVA - Solar Cells - EVA - Backsheet
Backsheet	Multilayer Composite Film
Junction Box	Tyco or Amphenol
Bypass Diodes	3 (SL1515)
Cable	4mm <sup>2</sup> (12 AWG), 1000mm length
Rear Connection	MC4 or SOLARLOK
Static Surface Load (Front/Back)	2400Pa
Max Surface Load (Heavy Snow)	5400Pa
Certifications	ANSI/UL 1703, ULC/ORD C-1703, IEC 61215, IEC 61730, UL 1703:2002 R4.08
Module Efficiency	Up to 15%
Packaging (modules per pallet)	25 or as specified

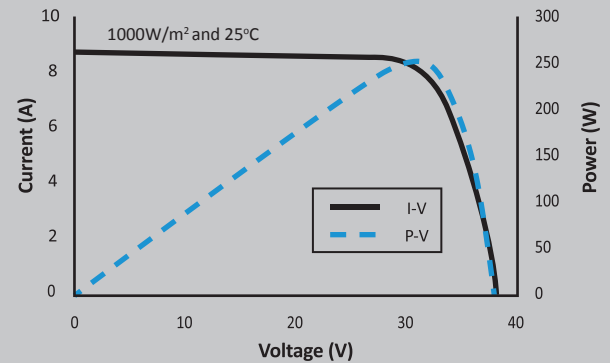
Note: All modules manufactured by Eclipsall will undergo flash testing and will be sorted accordingly

## Dimensions



**Notes:**  
All dimensions in mm.  
For more details, see installation manual.  
Specifications and design subject to change without notice.

## I-V and P-V Curve



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