

MONO HALF-CUT MODULES  
**ORION**  
530W/535W/540W/545W/550W



Picture Only for Reference

-  High Module Conversion Efficiency
-  Easy Installation & Handling
-  Mechanical Load Capacity of up to 5400 Pa
-  Conforms with Latest IEC Standards
-  ISO 9001, ISO 45001, ISO 14001
-  Application Class A, Safety Class II  
Fire Rating C

**LINEAR PERFORMANCE WARRANTY**



**12 YEARS**

MATERIAL & WORKMANSHIP

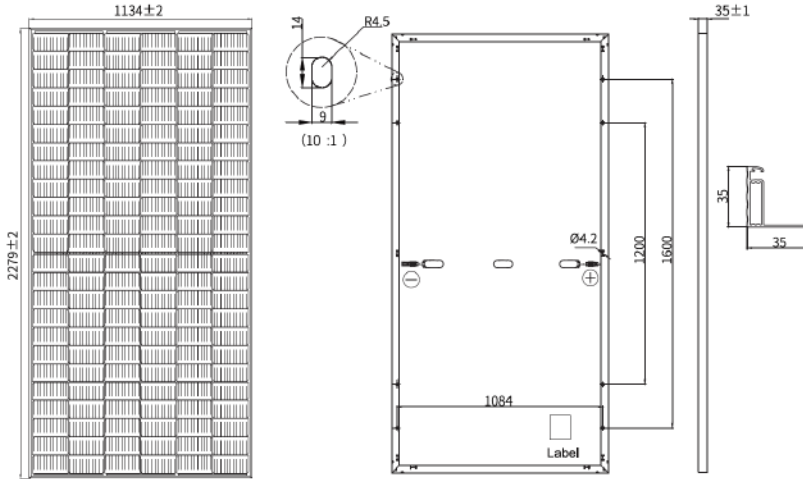
**30 YEARS**

LINEAR POWER OUTPUT

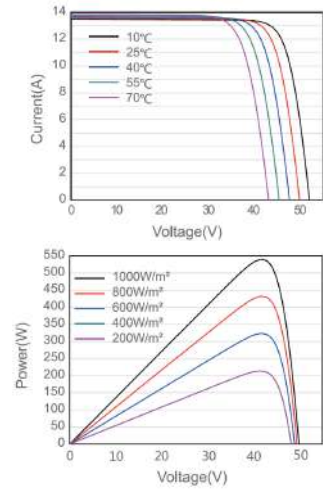


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Dimensions



I-V Curves

Electrical Characteristics STC	ES530M-Abcp	ES535M-Abcp	ES540M-Abcp	ES545M-Abcp	ES550M-Abcp
Maximum Power (Pmax)	530W	535W	540W	545W	550W
Power Tolerance	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.3%
Maximum Power Current (Imp)	13.03A	13.11A	13.19A	13.27A	13.35A
Maximum Power Voltage (Vmp)	40.68V	40.82V	40.95V	41.08V	41.21V
Short Circuit Current (Isc)	13.71A	13.79A	13.87A	13.93A	14.03A
Short Circuit Voltage (Voc)	49.22V	49.36V	49.49V	49.62V	49.75V

Values at Standard Test Conditions (STC) (AM1.5, Irradiance of 1000W/m<sup>2</sup>, Cell Temperature 25°C)

Electrical Characteristics NOCT	ES530M-Abcp	ES535M-Abcp	ES540M-Abcp	ES545M-Abcp	ES550M-Abcp
Maximum Power (Pmax)	401W	405W	408W	412W	416W
Maximum Power Current (Imp)	10.39A	10.43A	10.47A	10.51A	10.55A
Maximum Power Voltage (Vmp)	38.57V	38.78V	38.79V	38.99V	39.20V
Short Circuit Current (Isc)	11.01A	11.05A	11.09A	11.13A	11.17A
Short Circuit Voltage (Voc)	46.18V	46.31V	46.43V	46.55V	46.68V

Values at Normal Operating Cell Temperature (NOCT) (irradiance of 800W/m<sup>2</sup>, Cell Temperature 20°C, Wind Speed 1m/s)

Mechanical Characteristics		Temperature Characteristics	
Cell Type	Mono P-Type, 182 x 182(±1)mm, 144(6x24) Half-Cut cells	Temperature Coefficient VOC	-0.275%/°C
Glass	3.2 mm High Transmission, Low Iron, AR Coated Tempered Glass	Temperature Coefficient Isc	+0.045%/°C
Frame	Anodized Aluminum Alloy	Temperature Coefficient Pmax	-0.350%/°C
Junction Box	IP68 Rated, With 3 Bypass Diodes	Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Dimensions	*2279x1134x35mm		
Output Cable	4mm <sup>2</sup> , 300mm(+)/300mm(-), length can be customized		
Weight	28.6 kg		
Mounting Hole Location	See Drawing Above		

Packing Information		Maximum Ratings	
Container	40' HQ	Operating Temperature	-40°C ~ +85°C
Pallets Per Container	20	Maximum System Voltage	1500V DC
Pieces Per Container	620	Maximum Series Fuse Rating	25A

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\* The specifications and key features contained in this datasheet may change without notice due to the continuous product enhancement. Eversola reserves the right to make necessary adjustment to the information described herein at any time without further notice.

\* Contact Eversola for tolerance specification

