

MONO HALF-CUT MODULES

TWIN 2.0

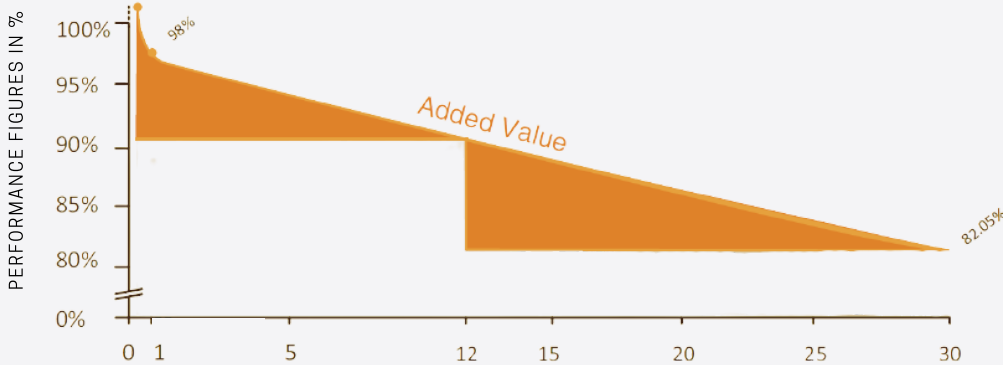
430W/435W/440W/445W/450W



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

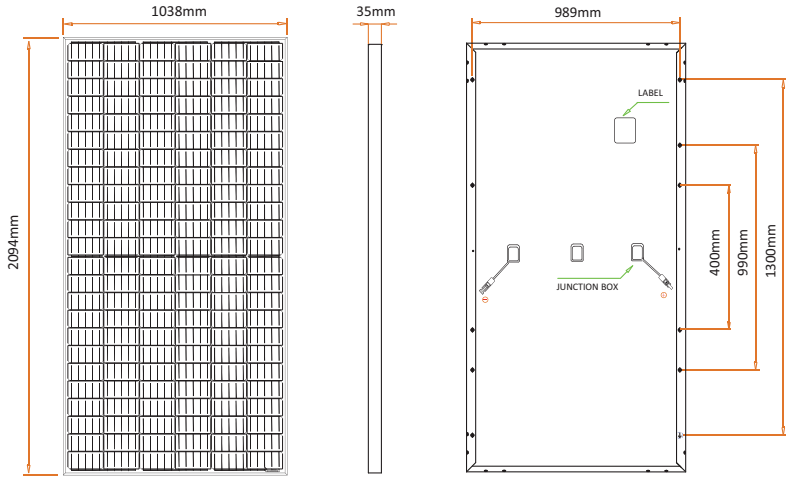
30 YEARS

LINEAR POWER OUTPUT

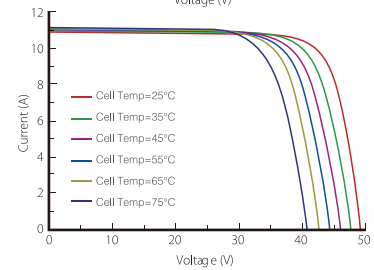
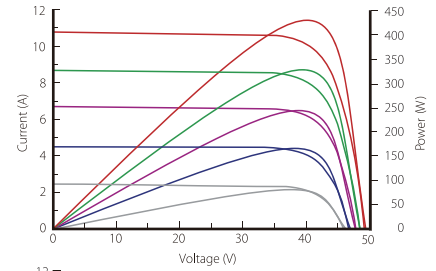


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Dimensions



I-V Curves

Electrical Characteristics STC	ES430M-Abcp	ES435M-Abcp	ES440M-Abcp	ES445M-Abcp	ES450M-Abcp
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Power Tolerance	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Module Efficiency	19.78%	20.01%	20.24%	20.47%	20.70%
Maximum Power Current (Imp)	10.57A	10.64A	10.71A	10.78A	10.85A
Maximum Power Voltage (Vmp)	40.70V	40.90V	41.10V	41.30V	41.50V
Short Circuit Current (Isc)	11.31A	11.39A	11.46A	11.53A	11.60A
Short Circuit Voltage (Voc)	48.50V	48.70V	48.90V	49.10V	49.30V

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

Electrical Characteristics NOCT	ES430M-Abcp	ES435M-Abcp	ES440M-Abcp	ES445M-Abcp	ES450M-Abcp
Maximum Power (Pmax)	321W	325W	329W	332W	336W
Maximum Power Current (Imp)	8.47A	8.53A	8.59A	8.64A	8.70A
Maximum Power Voltage (Vmp)	37.90V	38.10V	38.30V	38.50V	38.60V
Short Circuit Current (Isc)	9.15A	9.21A	9.27A	9.33A	9.38A
Short Circuit Voltage (Voc)	45.50V	45.70V	45.80V	46.00V	46.20V

Values at Normal Operating Cell Temperature (NOCT) (irradiance of 800W/m², Cell Temperature 20°C, Wind Speed 1m/s)

Mechanical Characteristics		Temperature Characteristics	
Cell Type	Mono P-Type, 166 x 166 (±1)mm, 144 (6x24) Half-Cut cells	Temperature Coefficient VOC	-0.270%/°C
Glass	High Transmission, Low Iron, AR Coated Tempered Glass	Temperature Coefficient Isc	+0.048%/°C
Frame	Anodized Aluminum Alloy	Temperature Coefficient Pmax	-0.348%/°C
Junction Box	IP68 Rated, With 3 Bypass Diodes	Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Dimensions	*2094x1038x35mm		
Output Cable	4mm ² , 300mm(+)/300mm(-), length can be customized		
Weight	23.5 kg		
Mounting Hole Location	See Drawing Above		

Packing Information			Maximum Ratings	
Container	20' GP	40' HQ	Operating Temperature	-40°C ~ +85°C
Pallets Per Container	5	22	Maximum System Voltage	1500V DC
Pieces Per Container	155	682	Maximum Series Fuse Rating	20A

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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

