






ETHM445-460M(144)

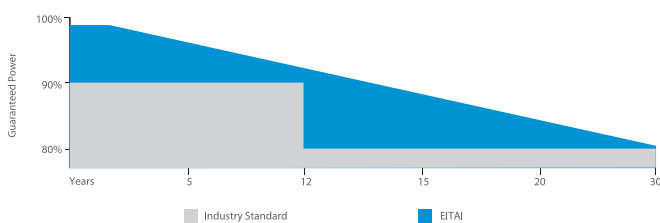
Mono Half-Cell Module



KEY FEATURES

-  Tolerance: 0+3%
-  Higher Output of Power
-  Optimize the temperature coefficient
-  Reduce the shadow loss on the power output
-  Stronger the physical property

LINEAR PERFORMANCE WARRANTY



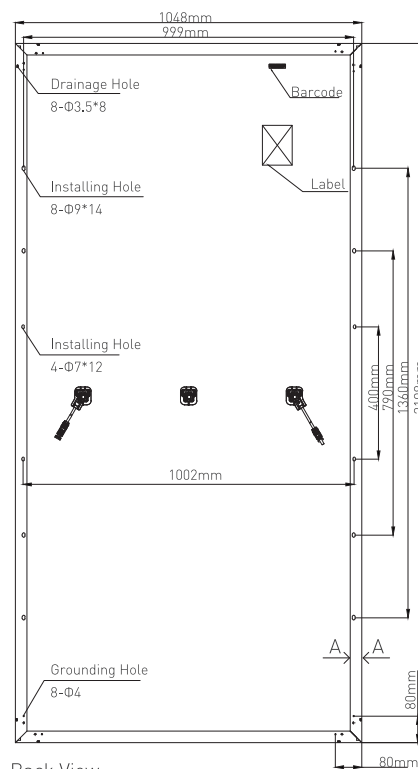
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Mechanical Data

Solar Cells	Monocrystalline, 166mm(9BB)
Cell Orientation	144cells(6*24)
Module Dimensions	2108*1048*35mm
Weight	25.5kg(Approx)
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	White / Black
Frame	Anodized Aluminium Alloy
J-Box	IP68 rated (3 bypass diodes)
Cables	4.0mm ² , 300mm or Customized Length
Connector	MC4 Compatible /MC4 EVO2/TS4*

*Please refer to regional datasheet for specified connector.

Module Dimension



Back View

Temperature Ratings

NMOT (Nominal Module Operating Temperature)	42°C (±2°C)
Temperature Coefficient of Pmax	- 0.37%/°C
Temperature Coefficient of Voc	- 0.30%/°C
Temperature Coefficient of Isc	+0.05%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

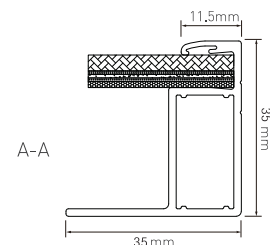
Module Type

	445		450		455		460	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	445.00	335.00	450.00	338.70	455.00	342.40	460.00	346.10
Maximum Power Voltage (Vmp/V)	41.20	38.50	41.40	38.70	41.60	38.90	41.80	39.10
Maximum Power Current (Imp/A)	10.81	8.71	10.88	8.76	10.95	8.81	11.02	8.86
Open Circuit Voltage (Voc/V)	49.00	46.80	49.20	47.00	49.40	47.20	49.60	47.40
Short Circuit Current (Isc/A)	11.54	9.19	11.61	9.25	11.68	9.30	11.75	9.35
Module Efficiency (%)	20.00		20.20		20.40		20.60	

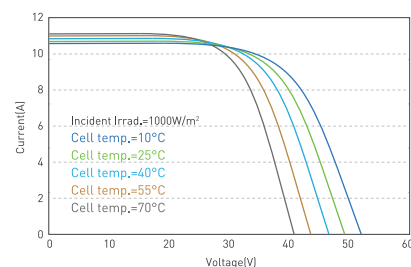
STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5.

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

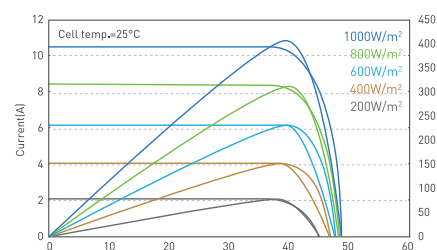
Measuring tolerance: 0~ +5w



I-V Curve at Different Temperature (445W)



I-V/P-V Curve at Different Irradiation (445W)



CAUTION: READ INSTALLATION MANUAL BEFORE USING THE PRODUCT

Warranty

12 year Product Workmanship Warranty

30 year Linear Power Warranty

(Please refer to product warranty for details)

Packaging Configuration

Modules per box: 30 pieces

Modules per 40' container: 660 pieces



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