

ETHM400-420M (108)

Small Changes, Big Accomplishments

• INTRODUCTION

EITAI redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies.

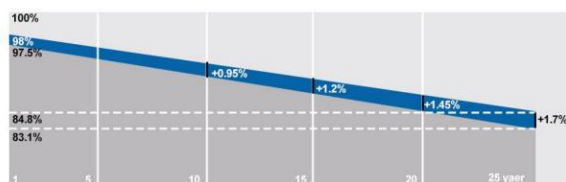
EITAI panel combined creative technology effectively and extremely improved the module efficiency and power output.

• KEY FEATURES

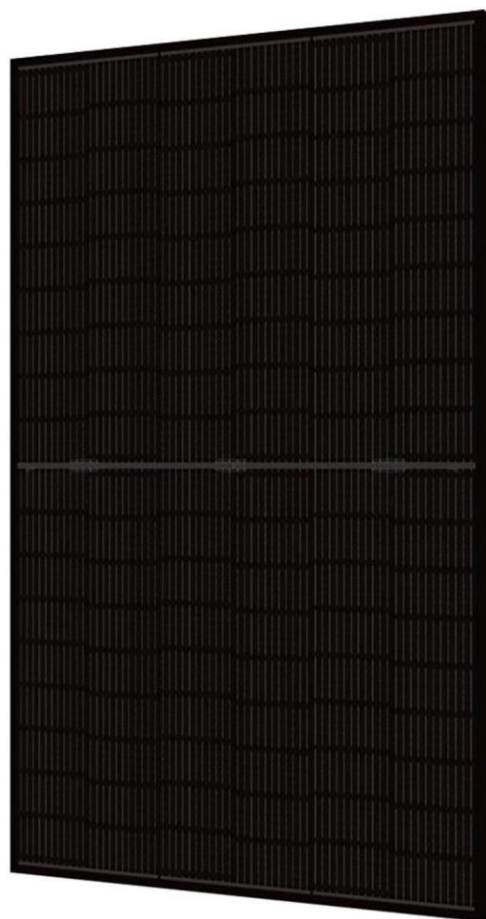
- Higher output power
- Less shading and lower resistive loss
- Lower LCOE
- Better mechanical loading tolerance

• WARRANTY

- 12 years product material and workmanship warranty
- 25 years linear power output warranty



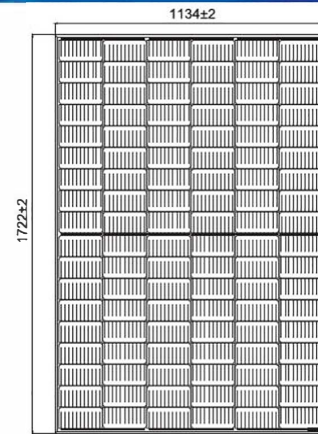
- New linear power warranty
- Standard module linear power warranty



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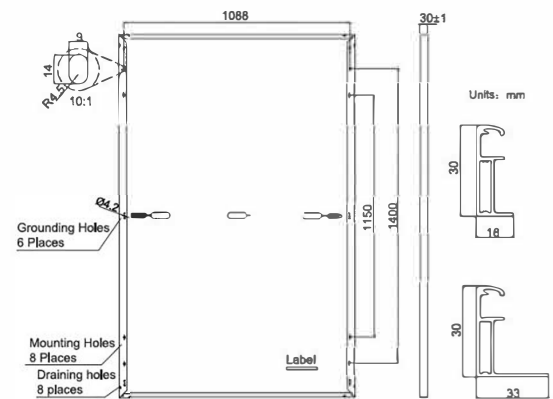
Mechanical Data

External Dimensions	1722 x 1134 x 30mm
Weight	20.8kg
Solar Cells	MONO (6 x 18pcs)
J-Box	IP68, 3 diodes
Cables	4.0mm ² , 300mm or customized length
Connector	MC4 Compatible
Packaging Configuration	36pcs/ Pallet 936pcs/ 40'HQ Container



Operating Conditions

Maximum System Voltage	1000V/ 1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	5400Pa (112lb/ft ²)
Maximum Static Load, Back	2400Pa (50lb/ft ²)
NOCT	45±2°C
Safety Class	ClassII

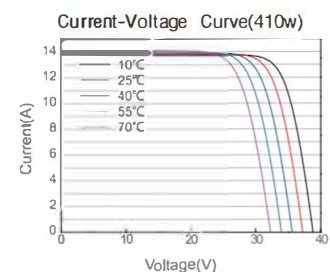
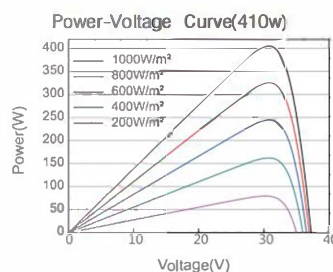
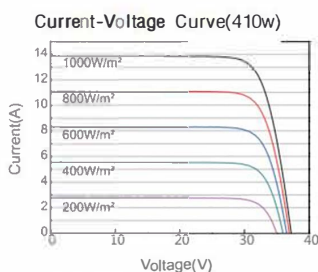


Electrical Data

Module Type	ETHM400		ETHM405		ETHM410		ETHM415		ETHM420	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment										
Maximum Power (Pmax/W)	400	302	405	306	410	310	415	314	420	318
Open Circuit Voltage (Voc/V)	37.07	34.88	37.23	35.12	37.32	35.23	37.45	35.37	37.58	35.5
Short Circuit Current (Isc/A)Maximum	13.79	11.03	13.87	11.1	13.95	11.16	14.02	11.22	14.1	11.29
Power Voltage (Vmp/V)Maximum	31.01	29.26	31.21	29.47	31.45	29.72	31.61	29.89	31.8	30.09
PowerCurrent (Imp/A)	12.9	10.32	12.98	10.38	13.04	10.43	13.13	10.5	13.21	10.57
Module Efficiency (%)	20.5		20.7		21		21.3		21.5	
Power Tolerance (%)	0~+5w									
Temperature Coefficient of Isc_STC	-0.045%/ C									
Temperature Coefficient of Voc_STC	-0.275%/ C									
Temperature Coefficient of Pmax_STC	-0.350%/ C									

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

NOCT: Irradiance 800W/m², ambient temperature 25°C, wind speed 1m/s, AM1.5G.



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