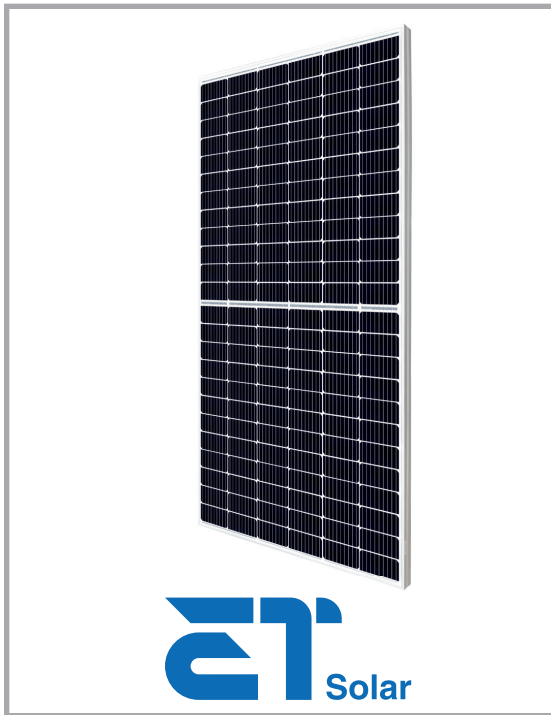


PANEL ET SOLAR 450W MONO PERC ET-M672BH450W



Información general

1500

Alto voltaje: Certificación UL e IEC 1500V; reduce los costos del sistema (BOS) y produce un mejor LCOE, (Costo Nivelado de Energía)



Alta eficiencia: Mayor eficiencia de conversión gracias a la fabricación con medias celdas (característica de baja resistencia)



Resistencia PID: Excelente rendimiento Anti-PID garantiza una degradación limitada en potencia para una mayor generación.



Rendimiento con poca luz: El avanzado diseño en el vidrio y superficie de la celda aseguran un excelente desempeño en condiciones de baja luz.



Resistencia al clima severo: Certificado para soportar: carga de viento (2400 Pascal) y carga de nieve (**5400 Pascal**).



Durabilidad frente a condiciones ambientales extremas: Alta resistencia a la niebla salina y al amoníaco certificada por TÜV SUD.

25

25 años de Garantía: Material y mano de obra del producto

12

12 años de Garantía: Rendimiento Lineal



IEC 61215
IEC 61730
UL 61215
UL 61730



MODELO	ET-M672BH450W
Potencia máxima (Pmax))	450W
Eficiencia del módulo	20.4%
Voltaje de máxima potencia (Vmax)	41.4V
Corriente de máxima potencia (Imax)	10.88A
Voltaje de circuito abierto (Voc)	50.0V
Corriente de cortocircuito (Isc)	11.47A
Tolerancia de potencia	0~+4.99W
Temperatura de funcionamiento	-40 ~ +85°C
Voltaje máximo del sistema	DC 1500V
Temperatura nominal de la celda de funcionamiento	45±2°C
ESPECIFICACIONES ELÉCTRICAS (NOCT)	
Potencia máxima (Pmax)	334W
Voltaje de máxima potencia (Vmax)	37.96V
Corriente de máxima potencia (Imax)	8.90A
Voltaje de circuito abierto (Voc)	46.7V
Corriente de corto circuito (Isc)	9.56A

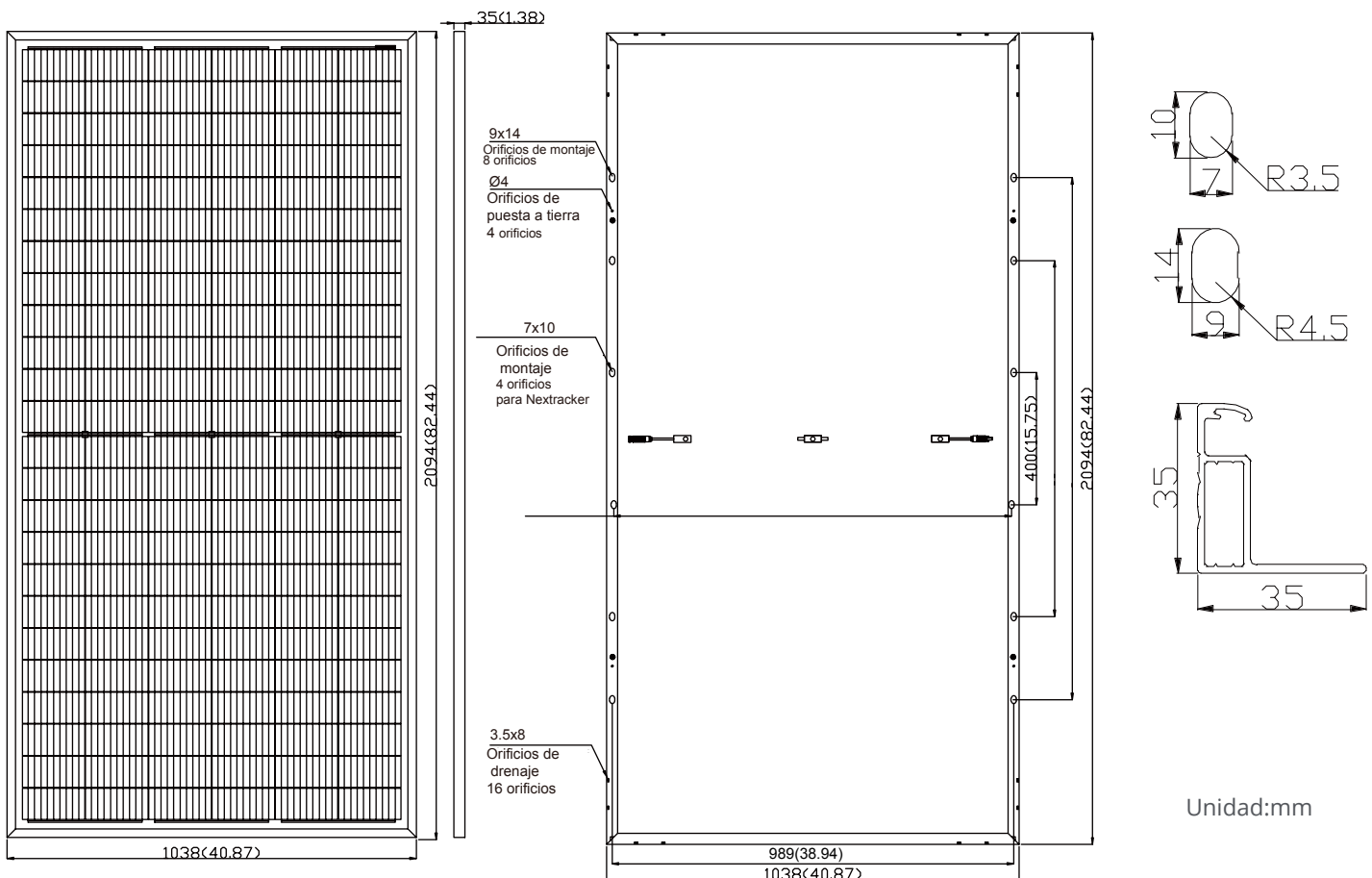
PANEL ET SOLAR 450W MONO PERC ET-M672BH450W

ESPECIFICACIONES MECÁNICAS

Tipo de celda	166mm x 83mm
Número de celdas	144 medias celdas (6 x 24)
Peso	24Kg
Dimensiones	2094x1038x35mm
Vidrio Frontal	3,2 mm, revestimiento antirreflejos, Alta transmisión, bajo contenido de hierro, vidrio templado
Caja de conexiones	Clasificación IP67
Marco	Aleación de aluminio anodizado
Cables de salida	4 mm ² ; Retrato: 255 mm (+) / 355 mm (-) o personalizado

COEFICIENTE DE TEMPERATURA

Coefficiente de temperatura de I _{sc} (TK I _{sc})	0.048% /°C
Coefficiente de temperatura de V _{oc} (TK V _{oc})	0.290% /°C
Coefficiente de temperatura de P _{max} (TK P _{max})	0.350% /°C





Product Service

Attestation of Conformity

No. N8A 108181 0004 Rev. 00

Holder of Certificate: **ET SOLAR POWER HONGKONG LIMITED**
Room 01,21/F, XINGFA Commercial Building
9th Tobacco Factory Street
Mong Kok
HONG KONG

Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061917001-01

Date, 2020-05-25

(Zhulin Zhang)

Page 1 of 2

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. N8A 108181 0004 Rev. 00

Model(s):

ET-M672xxxWW, ET-M672xxxWB
 (xxx=370 to 385 in step of 5);
 ET-M660xxxWW, ET-M660xxxWB
 (xxx=310 to 320 in step of 5);
 ET-M672BHxxxWW, ET-M672BHxxxWB
 (xxx=380 to 400 in step of 5);
 ET-M660BHxxxWW, ET-M660BHxxxWB
 (xxx=320 to 330 in step of 5).
 xxx is standing for rated output power at STC
 The suffix WW is standing for silvery frame and white backsheet.
 The suffix WB is standing for black frame and white backsheet.

Parameters:

Construction:	Framed with Junction box, Cable and Connectors.
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute No.10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Safety Class:	Class II
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C according to UL790.

Tested according to:

EN IEC 61730-1:2018
 EN IEC 61730-1:2018/AC:2018-06
 EN IEC 61730-2:2018
 EN IEC 61730-2:2018/AC:2018-06


Page 2 of 2

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Applicant:	ET SOLAR POWER HONGKONG LIMITED	Manufacturer:	GREEN WING SOLAR TECHNOLOGY CO.,LTD.
Address:	ROOM 01 21F XINGFA COMMERCIAL BUILDING 9TH TOBACCO FACTORY STREET MONG KOK, Hong Kong SAR	Address:	Lot D1-1, Dai Dong-Hoan Son Industrial Zone, Hoan Son Commune, Tien Du District, Bac Ninh Province
Country:	China	Country:	VIETNAM
Contact:	Li Wei	Contact:	Li Wei
Phone:	0086-13775662966	Phone:	0086 13775662966
FAX:	-	FAX:	-
Email:	liwei@bd-solar.com	Email:	liwei@bd-solar.com

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Intertek Testing Services Shanghai Limited
Control Number: 5014647 **Authorized by:**  _____
for L. Matthew Snyder, Certification Manager



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Intertek Testing Services NA Inc.
 545 East Algonquin Road, Arlington Heights, IL 60005
 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

	<p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [UL 61730-1:2017 Ed.1+R:30Apr2020]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [UL 61730-2:2017 Ed.1+R:30Apr2020]</p> <p>Standard(s): Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]</p>
Product:	Crystalline Silicon Photovoltaic (PV) Modules
Brand Name:	ET Solar
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Applicant:	ET SOLAR POWER HONGKONG LIMITED	Manufacturer:	VESOLAR COMPANY LIMITED
Address:	ROOM 01 21F XINGFA COMMERCIAL BUILDING 9TH TOBACCO FACTORY STREET MONG KOK, Hong Kong SAR	Address:	Lot CN2-7, Que Vo 3 Industrial Park, Viet Hung Town, Que Vo District, Bac Ninh Province, 790000
Country:	China	Country:	Vietnam
Contact:	Li Wei	Contact:	Li Wei
Phone:	0086-13775662966	Phone:	0086 13775662966
FAX:	-	FAX:	-
Email:	liwei@bd-solar.com	Email:	liwei@bd-solar.com
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5017056</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



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545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

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Product:	Crystalline Silicon Photovoltaic (PV) Modules
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Applicant:	ET SOLAR POWER HONGKONG LIMITED	Manufacturer:	ET SOLAR TECHNOLOGY (CAMBODIA)CO.,LTD
Address:	ROOM 01 21F XINGFA COMMERCIAL BUILDING 9TH TOBACCO FACTORY STREET MONG KOK, Hong Kong SAR	Address:	Road51,Damnak Pring Village, Tomnob Thom Commune,Ponhear Loe District,Kandal Province.
Country:	China	Country:	Cambodia
Contact:	Li Wei	Contact:	Zheng Lu Rong
Phone:	0086-13775662966	Phone:	0086-18651165405
FAX:	-	FAX:	-
Email:	liwei@bd-solar.com	Email:	lurongzheng@bd-solar.com
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5018215</u>	Authorized by:	 _____ for L. Matthew Snyder, Certification Manager



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545 East Algonquin Road, Arlington Heights, IL 60005
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Address:	ROOM 01 21F XINGFA COMMERCIAL BUILDING 9TH TOBACCO FACTORY STREET MONG KOK, Hong Kong SAR	Address:	PHUM PREY SALA,SANGKAT KAKAB TI 2.KHAN POU SENCHEY, PHNOM PENH.
Country:	China	Country:	Cambodia
Contact:	Li Wei	Contact:	Yang Wen Zhi
Phone:	0086-13775662966	Phone:	+855 016418269
FAX:	-	FAX:	-
Email:	liwei@bd-solar.com	Email:	wenzhi.yang@jinteksolar.com
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5018214</u>	Authorized by:	 _____ for L. Matthew Snyder, Certification Manager



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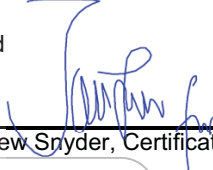
	<p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [UL 61730-1:2017 Ed.1+R:30Apr2020]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [UL 61730-2:2017 Ed.1+R:30Apr2020]</p> <p>Standard(s): Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]</p>
Product:	Crystalline Silicon Photovoltaic (PV) Modules
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Applicant:	ET SOLAR POWER HONGKONG LIMITED	Manufacturer:	SHENGTIAN NEW ENERGY VINA CO., LTD
Address:	ROOM 01 21F XINGFA COMMERCIAL BUILDING 9TH TOBACCO FACTORY STREET MONG KOK, Hong Kong SAR	Address:	Workshop A3-A4, Phu Thai Industrial Park, Phu Thai Town, Kim Thanh District, Hai Duong Province
Country:	China	Country:	Vietnam
Contact:	Li Wei	Contact:	Gu Fei
Phone:	0086-13775662966	Phone:	0086-13401645838
FAX:	-	FAX:	-
Email:	liwei@bd-solar.com	Email:	freddy.gu@snevn.com
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		

Control Number: 5019712

Authorized by: 
for L. Matthew Snyder, Certification Manager



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	<p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [UL 61730-1:2017 Ed.1+R:30Apr2020]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]</p> <p>Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [UL 61730-2:2017 Ed.1+R:30Apr2020]</p> <p>Standard(s): Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]</p> <p>Terrestrial Photovoltaic (Pv) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]</p>
Product:	Crystalline Silicon Photovoltaic (PV) Modules
Brand Name:	ET Solar
Models:	<p>ET-P672 followed by 330, 335, 340 or 345; followed by WW or WB.</p> <p>ET-P660 followed by 275, 280 or 285; followed by WW or WB.</p> <p>ET-M672 followed by 370, 375, 380, 385 or 390; followed by WW or WB.</p> <p>ET-M660 followed by 310, 315, 320 or 325; followed by WW or WB.</p> <p>ET-M672BH followed by 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450 or 455; followed by WW or WB.</p> <p>ET-M660BH followed by 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370 or 375; followed by WW or WB.</p> <p>ET-M672BH followed by 385, 390, 395, 400, 405, 410, 415, 420, 435, 440, 445, 450 or 455; followed by TW.</p> <p>ET-M660BH followed by 325, 330, 335, 340, 345, 350, 360, 365, 370 or 375; followed by TW.</p> <p>ET-M672BH followed by 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440 or 445; followed by BB.</p> <p>ET-M660BH followed by 320, 325, 330, 335, 340, 345, 350, 360, 365 or 370; followed by BB.</p>