

**To:**

Company: Econess Energy Co., Ltd.  
Contact: Mr. Xu Jin  
Email: jinxu@eco-pv.com

**From:**

Company: TÜV NORD (HANGZHOU) CO., LTD.  
Contact: Ms. Li WenYing  
Email: wli@tuv-nord.com

2020-07-31

**Subject: Declaration of cancellation**

File No.: PVP06006/20P  
License holder: **Econess Energy Co., Ltd.**  
No.58, Haida Road, Huashi Town,  
Jiangyin City, Jiangsu Province, 214421, P.R. China  
Manufacturer: **Econess Energy Co., Ltd.**  
No.58, Haida Road, Huashi Town,  
Jiangyin City, Jiangsu Province, 214421, P.R. China  
Certificate No.: 44 780 19 406749 - 143R1M3  
Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since the date 2020-07-31.

The cancellation is to:

- License holder applied for cancellation.  
 New certificate(s) has (have) been issued to replace the cancelled one(s).  
(New certificate(s) : 44 780 19 406749 - 143R2M4)  
 Annual factory inspection is refused by the license holder or the manufacturer.  
 Factory Inspection fee or annual fee or registration fee is not paid by License Holder or Manufacturer.  
 Others. (N/A)

Please pay attention to stop using the invalid certificate(s) from 2020-07-31. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

TÜV NORD reserved the right of final explanation about the cancellation of certificate(s). TÜV NORD will not take any responsibility for the circumstance of misusing the invalid certificate(s) by the license holder or the manufacturer.

PV Business - Renewable Energy  
TÜV NORD (Hangzhou) Co., Ltd.

Miley Li   
Technical Support

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Econess Energy Co., Ltd.**  
No.58, Haida Road, Huashi Town  
Jiangyin City, Jiangsu Province, 214421  
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**PV Modules with 6" Mono-crystalline Silicon Solar Cells**

**PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells**



Valid from: 2020-07-31  
Valid until: 2023-11-06

Tested according to: IEC / EN 61215-1:2016;  
IEC / EN 61215-1-1:2016;  
IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;  
IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;  
IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.

Registered No.: 44 780 19 406749 - 143R2M4  
Manufacturer: see Annex 1  
Test Report No.: 492011136.005  
File No.: PVP04066/20P



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



Essen, 2020-07-31

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 19 406749 - 143R2M4

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP04066/20P

2020-07-31

**Manufacturer:**

Manufacturer: **Econess Energy Co., Ltd.**  
No.58, Haida Road, Huashi Town,  
Jiangyin City, Jiangsu Province, 214421, P.R. China

Factory inspection report no.: 862010180.007

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A handwritten signature in blue ink, appearing to read "Rogers".

**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: EN156M-72-xxx (xxx = 330 - 370, in increments of 5) 60 cells: EN156M-60-xxx (xxx = 275 - 305, in increments of 5) 54 cells: EN156M-54-xxx (xxx = 245 - 275, in increments of 5) 48 cells: EN156M-48-xxx (xxx = 220 - 245, in increments of 5) 36 cells: EN156M-36-xxx (xxx = 165 - 185, in increments of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa (positive) 2400Pa (negative) for 40mm thickness of frame 1600Pa (negative) for 35mm thickness of frame
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)
Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: EN156M-144-xxx (xxx = 345 - 395, in increments of 5) 120 cells: EN156M-120-xxx (xxx = 290 - 330, in increments of 5) 144 cells: EN158M-144-xxx (xxx = 370 - 415, in increments of 5) 120 cells: EN158M-120-xxx (xxx = 310 - 345, in increments of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa (positive) 2400Pa (negative) for 40mm thickness of frame 1600Pa (negative) for 35mm thickness of frame
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: EN166M-144-xxx (xxx = 405 - 455, in increments of 5) 120 cells: EN166M-120-xxx (xxx = 340 - 380, in increments of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa (positive) 2400Pa (negative) for 40mm thickness of frame 1600Pa (negative) for 35mm thickness of frame
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**