



Product Service

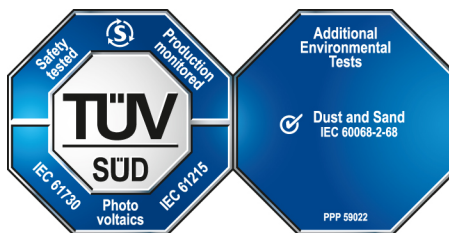
# CERTIFICATE

No. Z2 083334 0058 Rev. 05

**Holder of Certificate:** Ningbo Ulica Solar Co., Ltd.

NO.181-197, Shanshan Road  
Wangchun Industrial District  
315177 Ningbo  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:**

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

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704061909507-05

**Valid until:** 2026-10-24

**Date,** 2021-10-25

( Zhulin Zhang )

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## Model(s):

1000 V DC system voltage Single Glass modules:  
UL-xxxM-72, xxx= 330 to 390 in step of 5  
UL-xxxM-60, xxx= 275 to 325 in step of 5  
UL-xxxM-54, xxx= 245 to 290 in step of 5

1500 V DC system voltage Single Glass modules:  
UL-xxxM-72HV, xxx= 330 to 390 in step of 5  
UL-xxxM-60HV, xxx= 275 to 325 in step of 5  
UL-xxxM-54HV, xxx= 245 to 290 in step of 5

Half cell 1000 V DC system voltage Single Glass modules:  
UL-xxxM-144, xxx= 370 to 415 in step of 5  
UL-xxxM-120, xxx= 305 to 345 in step of 5  
UL-xxxM-108, xxx= 275 to 315 in step of 5  
UL-xxxM-96, xxx= 245 to 275 in step of 5  
UL-xxxM-144, xxx= 420 to 460 in step of 5  
UL-xxxM-120, xxx= 350 to 380 in step of 5  
UL-xxxM-108, xxx= 315 to 345 in step of 5  
UL-xxxM-96, xxx= 280 to 305 in step of 5  
UL-xxxM-156, xxx= 565 to 600 in step of 5  
UL-xxxM-144, xxx= 525 to 550 in step of 5  
UL-xxxM-132, xxx= 480 to 505 in step of 5  
UL-xxxM-120, xxx= 435 to 460 in step of 5  
UL-xxxM-108, xxx= 395 to 415 in step of 5  
UL-xxxM-96, xxx= 350 to 370 in step of 5

Half cell 1500 V DC system voltage Single Glass modules:  
UL-xxxM-144HV, xxx= 370 to 415 in step of 5  
UL-xxxM-120HV, xxx= 305 to 345 in step of 5  
UL-xxxM-108HV, xxx= 275 to 315 in step of 5  
UL-xxxM-96HV, xxx= 245 to 275 in step of 5  
UL-xxxM-144HV, xxx= 420 to 460 in step of 5  
UL-xxxM-120HV, xxx= 350 to 380 in step of 5  
UL-xxxM-108HV, xxx= 315 to 345 in step of 5  
UL-xxxM-96HV, xxx= 280 to 305 in step of 5  
UL-xxxM-156HV, xxx= 565 to 600 in step of 5  
UL-xxxM-144HV, xxx= 525 to 550 in step of 5  
UL-xxxM-132HV, xxx= 480 to 505 in step of 5  
UL-xxxM-120HV, xxx= 435 to 460 in step of 5  
UL-xxxM-108HV, xxx= 395 to 415 in step of 5  
UL-xxxM-96HV, xxx= 350 to 370 in step of 5  
xxx is standing for rated output power at STC.

## Parameters:

Dust and Sand Test Method: LC1  
Dust/sand Type: 95% SiO<sub>2</sub>  
Dust/sand concentration: 5 g/m<sup>3</sup>  
Testing Air Velocity: 20 m/s  
Test Duration: 4 h/each side  
Safety Class: Class II  
Max. System Voltage: 1000V DC or 1500 V DC  
Construction: Framed, with Junction box,  
cable and connector.  
Fire Safety Class: Class C according to UL790

## Tested according to:

IEC 61215-1:2016  
IEC 61215-1-1:2016  
IEC 61215-2:2016  
IEC 61730-1:2016  
IEC 61730-2:2016  
PPP 59022B:2021