



Product Service

# CERTIFICATE

No. Z2 112738 0001 Rev. 04

**Holder of Certificate:** **Apex Solar Energy  
Technology (Yangzhou) Co., Ltd.**  
No. 1 Xinjing Road  
Tianshan Industrial Concentration Zone, Songqiao Town  
225653 Gaoyou City, Jiangsu Province  
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.:** 704062109401-04

**Valid until:** 2028-01-09

**Date,** 2023-01-10

( Zhulin Zhang )

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## Model(s):

HRAP-144H-xxxM6 (xxx = 435-460, in step of 5);  
HRAP-120H-xxxM6 (xxx = 365-380, in step of 5);  
HRAP-144H-xxxM10 (xxx = 525-550, in step of 5);  
HRAP-132H-xxxM10 (xxx = 485-500, in step of 5);  
HRAP-120H-xxxM10 (xxx = 440-450, in step of 5);  
HRAP-108H-xxxM10 (xxx = 400-410, in step of 5);  
HRAP-150E-xxxM12 (xxx = 480-505, in step of 5);  
HRAP-120E-xxxM12 (xxx = 385-400, in step of 5);  
HRAP-132H-xxxM12 (xxx = 640-675, in step of 5);  
HRAP-120H-xxxM12 (xxx = 585-610, in step of 5);  
HRAP-110H-xxxM12 (xxx = 540-560, in step of 5);  
HRAP-156H-NxxxM10 (xxx=610-630, in step of 5);  
HRAP-144H-NxxxM10 (xxx=560-580, in step of 5);  
HRAP-120H-NxxxM10 (xxx=470-480, in step of 5);  
HRAP-108H-NxxxM10 (xxx=420-435, in step of 5).  
xxx is standing for rated output power at STC.

## Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd. No.8 Lanxiang Road, Wujin Economic Development Zone, Changzhou, Jiangsu, China.
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