



Product Service

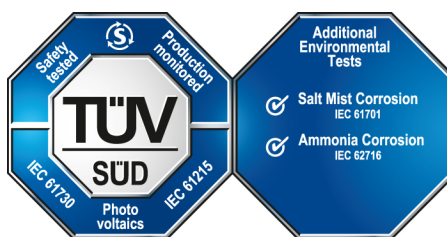
# CERTIFICATE

No. Z2 101645 0011 Rev. 00

**Holder of Certificate:** TommaTech GmbH

Angerweg 14  
85748 Garching b. München  
GERMANY

**Certification Mark:**



**Product:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**[Mono crystalline Silicon Photovoltaic (PV) Module(s)]**

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.:** 64290203095801C

**Valid until:** 2025-12-14

**Date,** 2021-03-30

( Symbol Zhao )



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No. Z2 101645 0011 Rev. 00

**Model(s):**

TTxxx-144MB (xxx=420-465, in steps of 5);  
 TTxxx-120MB (xxx=350-385, in steps of 5);  
 TTxxx-78HC (xxx=435-460, in steps of 5);  
 TTxxx-72HCMBBF (xxx=400-425, in steps of 5);  
 TTxxx-60HC (xxx=330-355, in steps of 5).

**Parameters:**

Rated output power at STC: See below table  
 Construction: Framed, with Junction box,  
 Cable and Connectors  
 Protection class: Class II  
 Max. system voltage: 1500 V d.c.  
 Fire safety class: Class C according to UL 790  
 Severity of salt mist test: Level 5

Rated output power at STC:

TTxxx-144MB	420 W, 425 W, 430 W, 435 W, 440 W, 445 W, 450 W, 455 W, 460 W, 465 W
TTxxx-120MB	350 W, 355 W, 360 W, 365 W, 370 W, 375 W, 380 W, 385 W
TTxxx-78HC	435 W, 440 W, 445 W, 450 W, 455 W, 460 W
TTxxx-72HCMBBF	400 W, 405 W, 410 W, 415 W, 420 W, 425 W
TTxxx-60HC	330 W, 335 W, 340 W, 345 W, 350 W, 355 W

**Tested according to:**

IEC 61215-1:2016  
 IEC 61215-1-1:2016  
 IEC 61215-2:2016  
 IEC 61730-1:2016  
 IEC 61730-2:2016  
 IEC 61701:2020  
 IEC 62716:2013