



# CERTIFICATE OF COMPLIANCE

**Certificate Number:** SGSNA/21/SH/00259

**Contract Number:** 801437  
**Certificate Project Number:** SH-CERT210802857

**Certified Product:** PHOTOVOLTAIC SOLAR TRACKERS  
**Trademarks:**



**Model(s):** TCU02-AX, TCU02-BX, NCU02-X  
(X: Communication mode, it can be L for Lora or Z for Zigbee),  
SL-TCU-300, SL-SPT-6Ah, VANGUARD

**Technical Data:** See page 2-3

**Certificate Holder:** Trina Solar Co., Ltd  
No.2 Trina Road, Trina PV Industrial Park, Xinbei District  
Changzhou, Jiangsu Province, China

*This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at [www.sgs.com](http://www.sgs.com) or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:*

UL 3703, 1st Edition, Rev. April 7, 2020

Authorized by:



Effective date: 13 January 2022

Mark Lohmann  
Certifier



## Certification Body

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## ELECTRICAL RATINGS

<b>TCU02-AX<sup>1</sup></b>	
Input range:	250Vd.c. to 1500Vd.c.
Input current:	0 to 0.6A
Output range:	24Vd.c.
Rated current:	6A
Enclosure ratings:	Type 3R
Normal operation temperature range	-30° C to 55° C
NOTE: 1. X: Communication mode: L- Lora, Z-Zigbee	

<b>TCU02-BX<sup>2</sup></b>	
Input range:	32Vd.c. to 55Vd.c.
Input current:	0 to 5A
Output range:	24Vd.c.
Rated current:	6A
Enclosure ratings:	Type 3R
Normal operation temperature range	-30° C to 55° C
NOTE: 2. X: Communication mode: L- Lora, Z-Zigbee	

<b>SL-TCU-300</b>	
Input phase configuration:	Single Split Phase 230Va.c.
Input range:	115Va.c. to 230Va.c.
Input current:	2.0A to 4.0A
Input Frequency:	50/60Hz
Output range:	20Vd.c. to 24Vd.c.
Output current:	12.4A

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## ELECTRICAL RATINGS

<b>SL-SPT-6Ah</b>	
Input range:	27Vd.c. to 35Vd.c.
Input current:	2.0A
Output range:	24Vd.c.
Output current:	12.5A

<b>NCU02-X<sup>3</sup></b>	
Input range:	115Va.c. / 230Va.c. (±10%)
Input Frequency:	50/60Hz
Normal operation temperature range	-30° C to 60° C
NOTE: 3. X: Communication mode: L- Lora, Z-Zigbee	

<b>VANGUARD</b>	
Rated input voltage:	24Vd.c.
Maximum input current:	12A
Rotation Angle Range:	-55 degree to +55 degree
Normal operation temperature range	-5° C to 50° C
Maximum Load or Control System:	4200 kg

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