



Product Service

# CERTIFICATE

No. Z2 114411 0001 Rev. 01

**Holder of Certificate:** **THEA ENERGY PRIVATE LIMITED**  
Y17 EP Block Sector V Salt Lake Electronics Complex  
Kolkata 700091  
INDIA

**Certification Mark:**



**Product:** **Converter**  
**(Grid-Tied Solar Inverter)**

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.:** 64290203091103A

**Valid until:** 2027-09-07

**Date,** 2023-04-28

( Billy Qiu )

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**Model(s):** SE-TH01 2.0TL1, SE-TH01 3.0TL1,  
SE-TH01 3.6TL1, SE-TH01 4.0TL1,  
SE-TH01 5.0TL1, SE-TH01 6.0TL1

## Parameters:

| Model                                        | SE-TH01<br>2.0TL1                | SE-TH01<br>3.0TL1        | SE-TH01<br>3.6TL1      | SE-TH01<br>4.0TL1        | SE-TH01<br>5.0TL1        | SE-TH01<br>6.0TL1        |
|----------------------------------------------|----------------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| PV terminal                                  |                                  |                          |                        |                          |                          |                          |
| Vmax. PV                                     | 500Vd.c.                         |                          |                        | 550Vd.c.                 |                          |                          |
| MPPT Voltage Range                           | 50-490Vd.c.                      |                          |                        | 70-540Vd.c.              |                          |                          |
| MPPT Voltage Range (full load)               | 140 ~ 430<br>Vd.c.               | 210 ~ 430<br>Vd.c.       | 250 ~ 430<br>Vd.c.     | 140 ~ 480<br>Vd.c.       | 170 ~ 480<br>Vd.c.       | 210 ~ 480<br>Vd.c.       |
| MPPT Tracker number                          | 1                                |                          |                        | 2                        |                          |                          |
| Max. continuous PV input current per tracker | 15Ad.c.                          |                          |                        | 15/15Ad.c.               |                          |                          |
| Isc PV per tracker                           | 20Ad.c.                          |                          |                        | 20/20Ad.c.               |                          |                          |
| Grid terminal                                |                                  |                          |                        |                          |                          |                          |
| Rated voltage                                | 220/230/240 Va.c.                |                          |                        |                          |                          |                          |
| Rated frequency                              | 50/60 Hz                         |                          |                        |                          |                          |                          |
| Maximum continuous output current            | 10Aa.c.                          | 15Aa.c.                  | 16Aa.c.                | 20Aa.c.                  | 25Aa.c.                  | 27.3Aa.c.                |
| Rated output current                         | 9.1/8.7/<br>8.3 Aa.c.            | 13.6/13.0/<br>12.5 Aa.c. | 16/15.7/1<br>5.0 Aa.c. | 18.2/17.4/<br>16.7 Aa.c. | 22.7/21.7/<br>20.8 Aa.c. | 27.3/26.1/<br>25.0 Aa.c. |
| Maximum output current                       | 10.0/9.6/<br>9.2 Aa.c.           | 15.0/14.3/<br>13.8 Aa.c. | 16/15.7/1<br>5.0 Aa.c. | 20.0/19.1/<br>18.3 Aa.c. | 25.0/23.9/<br>22.9 Aa.c. | 27.3/26.1/<br>25.0 Aa.c. |
| Rated output power                           | 2000W                            | 3000W                    | 3600W                  | 4000W                    | 5000W                    | 6000W                    |
| Rated output Apparent power                  | 2000VA                           | 3000VA                   | 3600VA                 | 4000VA                   | 5000VA                   | 6000VA                   |
| Maximum continuous output Apparent power     | 2200VA                           | 3300VA                   | 3600VA                 | 4400VA                   | 5500VA                   | 6000VA                   |
| Power factor (Cos phi), adjustable           | 0.8 leading ~ 0.8 lagging        |                          |                        |                          |                          |                          |
| Enclosure                                    | IP65                             |                          |                        |                          |                          |                          |
| Temperature Range                            | -25°C ~ +60°C (derating at 45°C) |                          |                        |                          |                          |                          |
| Protective Class                             | I                                |                          |                        |                          |                          |                          |
| Altitude                                     | up to 4000 m                     |                          |                        |                          |                          |                          |



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**Tested  
according to:**

IEC 62109-1:2010  
EN 62109-1:2010  
IEC 62109-2:2011  
EN 62109-2:2011