



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** AISWEI New Energy Technology(Jiangsu) Co., Ltd  
Building 9, No.198 Xiangyang Road,  
215011 Suzhou,  
P.R. China

**Product:** Photovoltaic (PV) Inverter

**Model:** ASW5000-S  
ASW4000-S  
ASW3680-S  
ASW3000-S

**Use in accordance with regulations:**

The inverters are tested according to the EN 50530:2010 + A1:2013 procedure for measuring of efficiency.

**Applied rules and standards:**

**EN 50530:2010 + A1:2013**

Overall efficiency of grid connected photovoltaic inverters

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

**Report number:** PV2105WDG0102-1

**Certification program:** NSOP-0032-DEU-ZE-V01

**Certificate number:** U21-0604

**Date of issue:**

2021-07-30

**Certification body**



*Certification body Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065*

*A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH*

**Measuring of efficiency**  
 Extract from test report according the EN 50530 Nr. PV2105WDG0102-1

Efficiency measurement conditions test results			
ASW3000-S			
Input voltage [Vdc]	V <sub>min</sub>	V <sub>nominal</sub>	V <sub>max</sub> (MPPT)
	140Vdc	360Vdc	464Vdc
η in [%]			
5%	99,47	98,32	99,33
10%	99,47	99,35	99,42
20%	99,44	99,60	99,50
25%	99,42	99,63	99,59
30%	99,39	99,65	99,68
50%	99,36	99,66	99,42
75%	99,30	99,54	99,53
100%	99,20	99,41	99,51
ASW3680-S			
Input voltage [Vdc]	V <sub>min</sub>	V <sub>nominal</sub>	V <sub>max</sub> (MPPT)
	165Vdc	360Vdc	464Vdc
η in [%]			
5%	99,78	99,54	98,80
10%	99,82	99,55	99,16
20%	99,72	99,56	99,21
25%	99,58	99,56	99,60
30%	99,55	99,55	99,71
50%	99,51	99,51	99,61
75%	99,64	99,47	99,56
100%	99,33	99,39	99,47
ASW4000-S			
Input voltage [Vdc]	V <sub>min</sub>	V <sub>nominal</sub>	V <sub>max</sub> (MPPT)
	180Vdc	360Vdc	464Vdc
η in [%]			
5%	99,58	99,38	99,01
10%	99,57	99,61	99,89
20%	99,54	99,87	99,64
25%	99,52	99,55	99,47
30%	99,50	99,50	99,58
50%	99,44	99,46	99,56
75%	99,33	99,41	99,51
100%	99,29	99,33	99,43

**Measuring of efficiency**

Extract from test report according the EN 50530

Nr. PV2105WDG0102-1

<b>ASW5000-S</b>			
<b>Input voltage [Vdc]</b>	<b>V<sub>min</sub></b>	<b>V<sub>nominal</sub></b>	<b>V<sub>max</sub> (MPPT)</b>
	<b>220Vdc</b>	<b>360Vdc</b>	<b>464Vdc</b>
	<b>η in [%]</b>		
<b>5%</b>	99,08	97,82	97,06
<b>10%</b>	99,47	99,16	98,42
<b>20%</b>	99,76	99,55	99,39
<b>25%</b>	99,64	99,61	99,48
<b>30%</b>	99,61	99,66	99,42
<b>50%</b>	99,47	99,52	99,56
<b>75%</b>	99,28	99,41	99,47
<b>100%</b>	99,15	99,25	98,82